Figure 1

		Atom Type	Res.			X	Y	Z		
ATOM	1	N	GLY	A	58	31.563	49.775	16.324	1.00	59.33
ATOM	2	CA	GLY	A	58	32.861	50.358	16.764	1.00	58.44
ATOM	3	C	GLY	A	58	33.594	49.446	17.727	1.00	57.81
ATOM	4	O	GLY	A	58	34.067	48.331	17.333	1.00	56.66
ATOM	5	N	SER	A	59	33.712	49.888	18.975	1.00	56.66
ATOM	6	CA	SER	A	59	34.391	49.094	20.015	1.00	55.45
ATOM	7	C	SER	A	59	33.560	49.088	21.293	1.00	53.77
ATOM	8	O	SER	A	59	32.978	50.147	21.704	1.00	54.40
ATOM	9	CB	SER	A	59	35.781	49.668	20.309	1.00	55.79
ATOM	10	OG	SER	A	59	35.690	50.952	20.899	1.00	57.07
ATOM	11	N	PHE	A	60	33.480	47.924	21.927	1.00	49.96
ATOM	12	CA	PHE	A	60	32.719	47.772	23.181	1.00	45.72
ATOM	13	C	PHE	A	60	33.681	47.269	24.247	1.00	44.79
ATOM	14	O	PHE	A	60	33.495	46.160	24.831	1.00	45.45
ATOM	15	CB	PHE	A	60	31.564	46.790	22.976	1.00	43.28
ATOM	16	CG	PHE	A	60	30.557	47.249	21.957	1.00	41.00
ATOM	17	CD1	PHE	A	60	30.875	47.267	20.602	1.00	40.54
ATOM	18	CD2	PHE	A	60	29.301	47.701	22.355	1.00	40.58
ATOM	19	CE1	PHE	A	60	29.954	47.731	19.658	1.00	39.88
ATOM	20	CE2	PHE	A	60	28.375	48.166	21.419	1.00	39.50
ATOM	21	CZ	PHE	A	60	28.704	48.182	20.070	1.00	39.23
ATOM	22	N	VAL	A	61	34.709	48.073	24.500	1.00	43.29
ATOM	23	CA	VAL	A	61	35.763	47.756	25.483	1.00	43.19
ATOM	24	C	VAL	A	61	35.243	47.069	26.738	1.00	41.81
ATOM	25	O	VAL	A	61	35.876	46.099	27.247	1.00	42.54
ATOM	26	CB	VAL	A	61	36.532	49.035	25.895	1.00	43.62
ATOM	27	CG1	VAL	A	61	37.069	49.730	24.655	1.00	44.38
ATOM	28	CG2	VAL	A	61	35.621	49.975	26.676	1.00	44.28
ATOM	29	N	GLU	A	62	34.114	47.542	27.252	1.00	40.86
ATOM	30	CA	GLU	A	62	33.517	46.959	28.470	1.00	40.02
ATOM	31	C	GLU	A	62	33.208	45.473	28.320	1.00	36.45
ATOM	32	O	GLU	A	62	33.366	44.685	29.301	1.00	36.49
ATOM	33	CB	GLU	A	62	32.226	47.700	28.832	1.00	43.76
ATOM	34	CG	GLU	A	62	32.399	48.895	29.764	1.00	48.74
ATOM	35	CD	GLU	A	62	32.743	48.486	31.188	1.00	51.91
ATOM	36	OE1	GLU	A	62	32.317	47.387	31.612	1.00	53.41
ATOM	37	OE2	GLU	A	62	33.423	49.271	31.890	1.00	53.64
ATOM	38	N	MET	A	63	32.780	45.062	27.129	1.00	30.86
ATOM	39	CA	MET	A	63	32.421	43.643	26.896	1.00	27.79
ATOM	40	C	MET	A	63	33.491	42.741	26.279	1.00	26.02
ATOM	41	O	MET	A	63	33.354	41.476	26.310	1.00	25.25
ATOM	42	CB	MET	A	63	31.130	43.578	26.078	1.00	25.63
ATOM	43	CG	MET	A	63	29.942	44.133	26.858	1.00	24.89
ATOM	44	SD	MET	A	63	28.392	44.180	25.960	1.00	23.85
ATOM	45	CE	MET	A	63	28.431	45.848	25.316	1.00	24.18
ATOM	46	N	VAL	A	64	34.551	43.330	25.736	1.00	23.39
ATOM	47	CA	VAL	A	64	35.639	42.516	25.143	1.00	20.76
ATOM	48	C	VAL	A	64	36.263	41.634	26.216	1.00	20.06
ATOM	49	O	VAL	A	64	36.531	42.095	27.370	1.00	18.87
ATOM	50	CB	VAL	A	64	36.740	43.407	24.517	1.00	21.16
ATOM	51	CG1	VAL	A	64	37.958	42.567	24.151	1.00	18.99
ATOM	52	CG2	VAL	A	64	36.193	44.092	23.266	1.00	21.01
ATOM	53	N	ASP	A	65	36.487	40.373	25.869	1.00	18.21
ATOM	54	CA	ASP	A	65	37.091	39.397	26.800	1.00	18.56
ATOM	55	C	ASP	A	65	36.280	39.174	28.071	1.00	17.80
ATOM	56	O	ASP	A	65	36.869	38.964	29.165	1.00	16.29
ATOM	57	CB	ASP	A	65	38.508	39.829	27.194	1.00	21.53
ATOM	58	CG	ASP	A	65	39.409	40.055	25.993	1.00	22.65

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ATOM     59  OD1 ASP A  65      39.162  39.451  24.930  1.00 23.75
ATOM     60  OD2 ASP A  65      40.375  40.831  26.117  1.00 24.72
ATOM     61  N   ASN A  66      34.955  39.209  27.969  1.00 16.59
ATOM     62  CA  ASN A  66      34.090  38.987  29.156  1.00 16.58
ATOM     63  C   ASN A  66      33.719  37.508  29.274  1.00 17.20
ATOM     64  O   ASN A  66      32.815  37.125  30.070  1.00 19.23
ATOM     65  CB  ASN A  66      32.817  39.845  29.059  1.00 14.62
ATOM     66  CG  ASN A  66      31.967  39.516  27.835  1.00 15.57
ATOM     67  OD1 ASN A  66      32.381  38.714  26.937  1.00 16.31
ATOM     68  ND2 ASN A  66      30.788  40.120  27.760  1.00 14.85
ATOM     69  N   LEU A  67      34.409  36.664  28.515  1.00 17.73
ATOM     70  CA  LEU A  67      34.134  35.206  28.529  1.00 17.36
ATOM     71  C   LEU A  67      35.295  34.328  28.985  1.00 16.04
ATOM     72  O   LEU A  67      36.499  34.701  28.842  1.00 16.38
ATOM     73  CB  LEU A  67      33.707  34.757  27.128  1.00 17.19
ATOM     74  CG  LEU A  67      32.226  34.504  26.839  1.00 18.63
ATOM     75  CD1 LEU A  67      31.349  35.604  27.407  1.00 16.94
ATOM     76  CD2 LEU A  67      32.049  34.375  25.330  1.00 18.67
ATOM     77  N   ARG A  68      34.956  33.166  29.531  1.00 14.58
ATOM     78  CA  ARG A  68      35.961  32.173  29.973  1.00 16.73
ATOM     79  C   ARG A  68      35.394  30.775  29.717  1.00 15.78
ATOM     80  O   ARG A  68      34.154  30.610  29.500  1.00 13.85
ATOM     81  CB  ARG A  68      36.299  32.349  31.459  1.00 18.19
ATOM     82  CG  ARG A  68      37.086  33.623  31.766  1.00 21.67
ATOM     83  CD  ARG A  68      37.571  33.646  33.213  1.00 23.25
ATOM     84  NE  ARG A  68      36.462  33.653  34.165  1.00 26.34
ATOM     85  CZ  ARG A  68      36.598  33.500  35.482  1.00 27.29
ATOM     86  NH1 ARG A  68      37.802  33.324  36.015  1.00 25.91
ATOM     87  NH2 ARG A  68      35.530  33.527  36.271  1.00 26.77
ATOM     88  N   GLY A  69      36.262  29.769  29.726  1.00 14.89
ATOM     89  CA  GLY A  69      35.816  28.409  29.486  1.00 15.62
ATOM     90  C   GLY A  69      36.505  27.806  28.277  1.00 16.66
ATOM     91  O   GLY A  69      37.526  28.367  27.771  1.00 15.60
ATOM     92  N   LYS A  70      35.989  26.676  27.804  1.00 17.25
ATOM     93  CA  LYS A  70      36.556  25.973  26.629  1.00 16.95
ATOM     94  C   LYS A  70      35.472  25.138  25.949  1.00 16.87
ATOM     95  O   LYS A  70      34.394  24.864  26.562  1.00 17.19
ATOM     96  CB  LYS A  70      37.737  25.092  27.058  1.00 18.62
ATOM     97  CG  LYS A  70      37.518  24.303  28.348  1.00 19.97
ATOM     98  CD  LYS A  70      38.737  23.446  28.667  1.00 22.43
ATOM     99  CE  LYS A  70      38.538  22.611  29.926  1.00 23.77
ATOM    100  NZ  LYS A  70      39.660  21.638  30.129  1.00 22.43
ATOM    101  N   SER A  71      35.714  24.729  24.706  1.00 15.11
ATOM    102  CA  SER A  71      34.706  23.950  23.940  1.00 14.34
ATOM    103  C   SER A  71      34.155  22.730  24.667  1.00 14.36
ATOM    104  O   SER A  71      32.918  22.446  24.600  1.00 13.81
ATOM    105  CB  SER A  71      35.281  23.523  22.581  1.00 14.97
ATOM    106  OG  SER A  71      36.456  22.743  22.732  1.00 15.41
ATOM    107  N   GLY A  72      35.024  22.005  25.362  1.00 14.38
ATOM    108  CA  GLY A  72      34.588  20.815  26.072  1.00 14.63
ATOM    109  C   GLY A  72      33.661  21.022  27.262  1.00 16.49
ATOM    110  O   GLY A  72      32.772  20.159  27.537  1.00 16.20
ATOM    111  N   GLN A  73      33.814  22.129  27.979  1.00 16.78
ATOM    112  CA  GLN A  73      32.965  22.369  29.167  1.00 18.67
ATOM    113  C   GLN A  73      32.040  23.570  29.038  1.00 18.70
ATOM    114  O   GLN A  73      31.223  23.858  29.967  1.00 19.81
ATOM    115  CB  GLN A  73      33.852  22.522  30.401  1.00 20.09
ATOM    116  CG  GLN A  73      34.924  21.433  30.493  1.00 24.21
ATOM    117  CD  GLN A  73      35.624  21.400  31.837  1.00 24.83
ATOM    118  OE1 GLN A  73      36.048  22.467  32.380  1.00 26.53
ATOM    119  NE2 GLN A  73      35.769  20.206  32.395  1.00 25.73
ATOM    120  N   GLY A  74      32.138  24.274  27.914  1.00 17.65
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ATOM	121	CA	GLY	A	74	31.292	25.429	27.688	1.00	15.83
ATOM	122	C	GLY	A	74	31.939	26.746	28.068	1.00	15.56
ATOM	123	O	GLY	A	74	32.837	26.799	28.962	1.00	17.53
ATOM	124	N	TYR	A	75	31.517	27.814	27.403	1.00	13.96
ATOM	125	CA	TYR	A	75	32.041	29.164	27.686	1.00	16.12
ATOM	126	C	TYR	A	75	30.991	29.903	28.502	1.00	14.92
ATOM	127	O	TYR	A	75	29.758	29.793	28.217	1.00	14.71
ATOM	128	CB	TYR	A	75	32.324	29.918	26.385	1.00	17.79
ATOM	129	CG	TYR	A	75	33.490	29.354	25.605	1.00	18.92
ATOM	130	CD1	TYR	A	75	33.326	28.271	24.742	1.00	19.83
ATOM	131	CD2	TYR	A	75	34.763	29.909	25.735	1.00	20.43
ATOM	132	CE1	TYR	A	75	34.409	27.757	24.020	1.00	21.98
ATOM	133	CE2	TYR	A	75	35.847	29.407	25.025	1.00	21.04
ATOM	134	CZ	TYR	A	75	35.666	28.339	24.170	1.00	22.04
ATOM	135	OH	TYR	A	75	36.746	27.882	23.456	1.00	22.86
ATOM	136	N	TYR	A	76	31.432	30.653	29.507	1.00	13.66
ATOM	137	CA	TYR	A	76	30.478	31.360	30.368	1.00	12.95
ATOM	138	C	TYR	A	76	30.753	32.837	30.593	1.00	13.47
ATOM	139	O	TYR	A	76	31.901	33.345	30.391	1.00	13.77
ATOM	140	CB	TYR	A	76	30.395	30.662	31.725	1.00	13.31
ATOM	141	CG	TYR	A	76	31.723	30.548	32.446	1.00	14.55
ATOM	142	CD1	TYR	A	76	32.601	29.497	32.174	1.00	16.16
ATOM	143	CD2	TYR	A	76	32.105	31.495	33.392	1.00	15.68
ATOM	144	CE1	TYR	A	76	33.829	29.392	32.832	1.00	17.64
ATOM	145	CE2	TYR	A	76	33.329	31.402	34.055	1.00	18.14
ATOM	146	CZ	TYR	A	76	34.183	30.348	33.770	1.00	18.24
ATOM	147	OH	TYR	A	76	35.390	30.252	34.428	1.00	21.79
ATOM	148	N	VAL	A	77	29.716	33.546	31.017	1.00	12.55
ATOM	149	CA	VAL	A	77	29.844	34.980	31.298	1.00	14.17
ATOM	150	C	VAL	A	77	29.390	35.225	32.727	1.00	15.16
ATOM	151	O	VAL	A	77	28.564	34.439	33.283	1.00	16.09
ATOM	152	CB	VAL	A	77	28.975	35.821	30.336	1.00	13.43
ATOM	153	CG1	VAL	A	77	27.495	35.528	30.567	1.00	11.59
ATOM	154	CG2	VAL	A	77	29.281	37.305	30.524	1.00	10.74
ATOM	155	N	GLU	A	78	29.905	36.276	33.352	1.00	16.88
ATOM	156	CA	GLU	A	78	29.486	36.571	34.731	1.00	17.45
ATOM	157	C	GLU	A	78	28.178	37.345	34.706	1.00	16.89
ATOM	158	O	GLU	A	78	27.961	38.239	33.826	1.00	14.65
ATOM	159	CB	GLU	A	78	30.538	37.392	35.479	1.00	19.11
ATOM	160	CG	GLU	A	78	30.222	37.503	36.974	1.00	24.70
ATOM	161	CD	GLU	A	78	31.225	38.342	37.757	1.00	26.24
ATOM	162	OE1	GLU	A	78	31.162	39.584	37.679	1.00	27.53
ATOM	163	OE2	GLU	A	78	32.076	37.755	38.452	1.00	29.49
ATOM	164	N	MET	A	79	27.296	37.012	35.641	1.00	16.65
ATOM	165	CA	MET	A	79	25.992	37.684	35.761	1.00	17.22
ATOM	166	C	MET	A	79	25.610	37.768	37.232	1.00	17.77
ATOM	167	O	MET	A	79	26.208	37.066	38.100	1.00	18.29
ATOM	168	CB	MET	A	79	24.908	36.899	35.007	1.00	16.88
ATOM	169	CG	MET	A	79	25.070	36.874	33.492	1.00	16.65
ATOM	170	SD	MET	A	79	23.798	35.865	32.673	1.00	17.43
ATOM	171	CE	MET	A	79	22.442	37.003	32.577	1.00	15.55
ATOM	172	N	THR	A	80	24.637	38.617	37.539	1.00	17.73
ATOM	173	CA	THR	A	80	24.146	38.741	38.917	1.00	17.50
ATOM	174	C	THR	A	80	22.632	38.630	38.853	1.00	17.85
ATOM	175	O	THR	A	80	21.995	39.075	37.851	1.00	17.14
ATOM	176	CB	THR	A	80	24.524	40.100	39.550	1.00	18.12
ATOM	177	OG1	THR	A	80	23.851	41.158	38.857	1.00	18.55
ATOM	178	CG2	THR	A	80	26.031	40.328	39.474	1.00	16.48
ATOM	179	N	VAL	A	81	22.042	38.020	39.874	1.00	18.24
ATOM	180	CA	VAL	A	81	20.573	37.882	39.959	1.00	20.23
ATOM	181	C	VAL	A	81	20.145	38.274	41.375	1.00	21.18
ATOM	182	O	VAL	A	81	20.929	38.093	42.362	1.00	20.31

ATOM	183	CB	VAL	A	81	20.105	36.429	39.700	1.00	20.43
ATOM	184	CG1	VAL	A	81	20.566	35.959	38.334	1.00	21.49
ATOM	185	CG2	VAL	A	81	20.639	35.518	40.777	1.00	21.78
ATOM	186	N	GLY	A	82	18.938	38.817	41.497	1.00	21.84
ATOM	187	CA	GLY	A	82	18.421	39.200	42.799	1.00	21.10
ATOM	188	C	GLY	A	82	18.973	40.475	43.404	1.00	21.47
ATOM	189	O	GLY	A	82	19.864	41.159	42.814	1.00	21.97
ATOM	190	N	SER	A	83	18.454	40.808	44.581	1.00	22.27
ATOM	191	CA	SER	A	83	18.869	42.012	45.335	1.00	22.02
ATOM	192	C	SER	A	83	18.996	41.607	46.795	1.00	20.16
ATOM	193	O	SER	A	83	18.002	41.120	47.410	1.00	20.07
ATOM	194	CB	SER	A	83	17.804	43.104	45.213	1.00	21.98
ATOM	195	OG	SER	A	83	17.356	43.229	43.874	1.00	23.70
ATOM	196	N	PRO	A	84	20.198	41.734	47.380	1.00	21.14
ATOM	197	CA	PRO	A	84	21.454	42.221	46.785	1.00	20.45
ATOM	198	C	PRO	A	84	21.911	41.288	45.656	1.00	20.37
ATOM	199	O	PRO	A	84	21.508	40.086	45.606	1.00	18.46
ATOM	200	CB	PRO	A	84	22.434	42.193	47.962	1.00	19.74
ATOM	201	CG	PRO	A	84	21.548	42.320	49.166	1.00	20.71
ATOM	202	CD	PRO	A	84	20.377	41.447	48.815	1.00	19.44
ATOM	203	N	PRO	A	85	22.754	41.790	44.741	1.00	20.53
ATOM	204	CA	PRO	A	85	23.258	40.997	43.616	1.00	20.58
ATOM	205	C	PRO	A	85	23.949	39.706	44.046	1.00	20.81
ATOM	206	O	PRO	A	85	24.854	39.720	44.936	1.00	21.15
ATOM	207	CB	PRO	A	85	24.240	41.947	42.932	1.00	20.87
ATOM	208	CG	PRO	A	85	23.732	43.294	43.282	1.00	22.23
ATOM	209	CD	PRO	A	85	23.340	43.141	44.724	1.00	21.41
ATOM	210	N	GLN	A	86	23.541	38.590	43.453	1.00	20.05
ATOM	211	CA	GLN	A	86	24.174	37.289	43.752	1.00	19.63
ATOM	212	C	GLN	A	86	24.904	36.923	42.472	1.00	20.50
ATOM	213	O	GLN	A	86	24.263	36.622	41.412	1.00	19.85
ATOM	214	CB	GLN	A	86	23.127	36.227	44.097	1.00	19.82
ATOM	215	CG	GLN	A	86	22.283	36.586	45.314	1.00	18.97
ATOM	216	CD	GLN	A	86	21.292	35.506	45.693	1.00	19.84
ATOM	217	OE1	GLN	A	86	20.226	35.801	46.316	1.00	21.21
ATOM	218	NE2	GLN	A	86	21.603	34.259	45.354	1.00	17.54
ATOM	219	N	THR	A	87	26.229	36.969	42.527	1.00	19.61
ATOM	220	CA	THR	A	87	27.057	36.669	41.346	1.00	19.61
ATOM	221	C	THR	A	87	27.088	35.188	40.994	1.00	18.63
ATOM	222	O	THR	A	87	27.220	34.302	41.892	1.00	18.56
ATOM	223	CB	THR	A	87	28.501	37.164	41.549	1.00	19.88
ATOM	224	OG1	THR	A	87	28.486	38.558	41.887	1.00	20.57
ATOM	225	CG2	THR	A	87	29.304	36.977	40.278	1.00	18.65
ATOM	226	N	LEU	A	88	26.972	34.907	39.701	1.00	18.38
ATOM	227	CA	LEU	A	88	26.991	33.522	39.193	1.00	18.18
ATOM	228	C	LEU	A	88	27.572	33.496	37.781	1.00	18.11
ATOM	229	O	LEU	A	88	27.353	34.457	36.974	1.00	18.86
ATOM	230	CB	LEU	A	88	25.568	32.952	39.159	1.00	16.21
ATOM	231	CG	LEU	A	88	24.825	32.828	40.495	1.00	18.20
ATOM	232	CD1	LEU	A	88	23.366	32.474	40.226	1.00	18.10
ATOM	233	CD2	LEU	A	88	25.484	31.766	41.379	1.00	16.56
ATOM	234	N	ASN	A	89	28.317	32.443	37.459	1.00	15.84
ATOM	235	CA	ASN	A	89	28.876	32.312	36.101	1.00	16.22
ATOM	236	C	ASN	A	89	27.841	31.544	35.300	1.00	16.03
ATOM	237	O	ASN	A	89	27.363	30.450	35.735	1.00	15.05
ATOM	238	CB	ASN	A	89	30.208	31.565	36.114	1.00	15.71
ATOM	239	CG	ASN	A	89	31.324	32.396	36.700	1.00	16.10
ATOM	240	OD1	ASN	A	89	31.390	33.650	36.477	1.00	15.48
ATOM	241	ND2	ASN	A	89	32.217	31.750	37.439	1.00	14.07
ATOM	242	N	ILE	A	90	27.485	32.091	34.145	1.00	15.55
ATOM	243	CA	ILE	A	90	26.445	31.494	33.292	1.00	14.59
ATOM	244	C	ILE	A	90	26.960	31.052	31.930	1.00	15.07

ATOM	245	O	ILE	A	90	27.578	31.867	31.173	1.00	13.01
ATOM	246	CB	ILE	A	90	25.301	32.512	33.084	1.00	14.44
ATOM	247	CG1	ILE	A	90	24.884	33.098	34.437	1.00	14.15
ATOM	248	CG2	ILE	A	90	24.114	31.847	32.407	1.00	14.29
ATOM	249	CD1	ILE	A	90	24.356	32.062	35.426	1.00	13.44
ATOM	250	N	LEU	A	91	26.714	29.790	31.590	1.00	15.08
ATOM	251	CA	LEU	A	91	27.153	29.249	30.284	1.00	15.63
ATOM	252	C	LEU	A	91	26.313	29.878	29.174	1.00	16.04
ATOM	253	O	LEU	A	91	25.041	29.904	29.250	1.00	16.72
ATOM	254	CB	LEU	A	91	27.008	27.721	30.265	1.00	14.67
ATOM	255	CG	LEU	A	91	27.450	26.945	29.012	1.00	15.49
ATOM	256	CD1	LEU	A	91	27.692	25.485	29.364	1.00	15.10
ATOM	257	CD2	LEU	A	91	26.393	27.052	27.925	1.00	15.54
ATOM	258	N	VAL	A	92	26.995	30.408	28.164	1.00	16.13
ATOM	259	CA	VAL	A	92	26.336	31.051	27.003	1.00	15.39
ATOM	260	C	VAL	A	92	25.901	29.960	26.038	1.00	15.51
ATOM	261	O	VAL	A	92	26.761	29.243	25.440	1.00	16.92
ATOM	262	CB	VAL	A	92	27.306	32.008	26.278	1.00	15.40
ATOM	263	CG1	VAL	A	92	26.668	32.523	24.994	1.00	16.99
ATOM	264	CG2	VAL	A	92	27.671	33.172	27.200	1.00	13.64
ATOM	265	N	ASP	A	93	24.594	29.824	25.845	1.00	16.41
ATOM	266	CA	ASP	A	93	24.069	28.762	24.974	1.00	14.41
ATOM	267	C	ASP	A	93	23.090	29.226	23.903	1.00	15.40
ATOM	268	O	ASP	A	93	21.889	29.494	24.206	1.00	15.81
ATOM	269	CB	ASP	A	93	23.411	27.701	25.861	1.00	16.00
ATOM	270	CG	ASP	A	93	22.897	26.512	25.078	1.00	16.45
ATOM	271	OD1	ASP	A	93	23.536	26.133	24.076	1.00	17.23
ATOM	272	OD2	ASP	A	93	21.863	25.938	25.481	1.00	16.68
ATOM	273	N	THR	A	94	23.550	29.326	22.657	1.00	13.38
ATOM	274	CA	THR	A	94	22.636	29.745	21.574	1.00	13.70
ATOM	275	C	THR	A	94	21.811	28.549	21.109	1.00	13.68
ATOM	276	O	THR	A	94	20.941	28.671	20.190	1.00	14.18
ATOM	277	CB	THR	A	94	23.397	30.349	20.362	1.00	14.99
ATOM	278	OG1	THR	A	94	24.279	29.370	19.798	1.00	14.96
ATOM	279	CG2	THR	A	94	24.201	31.568	20.794	1.00	14.04
ATOM	280	N	GLY	A	95	22.053	27.392	21.719	1.00	14.90
ATOM	281	CA	GLY	A	95	21.309	26.199	21.351	1.00	15.51
ATOM	282	C	GLY	A	95	20.108	25.969	22.255	1.00	16.96
ATOM	283	O	GLY	A	95	19.516	24.850	22.275	1.00	16.90
ATOM	284	N	SER	A	96	19.721	26.987	23.011	1.00	17.38
ATOM	285	CA	SER	A	96	18.562	26.851	23.922	1.00	17.95
ATOM	286	C	SER	A	96	17.990	28.231	24.226	1.00	17.07
ATOM	287	O	SER	A	96	18.573	29.269	23.803	1.00	14.94
ATOM	288	CB	SER	A	96	19.005	26.174	25.219	1.00	18.55
ATOM	289	OG	SER	A	96	19.640	26.894	26.276	1.00	26.99
ATOM	290	N	SER	A	97	16.869	28.292	24.936	1.00	16.25
ATOM	291	CA	SER	A	97	16.290	29.614	25.258	1.00	18.39
ATOM	292	C	SER	A	97	15.740	29.776	26.670	1.00	17.83
ATOM	293	O	SER	A	97	14.866	30.653	26.932	1.00	18.75
ATOM	294	CB	SER	A	97	15.224	29.993	24.227	1.00	18.88
ATOM	295	OG	SER	A	97	14.633	28.850	23.651	1.00	23.68
ATOM	296	N	ASN	A	98	16.229	28.959	27.592	1.00	17.57
ATOM	297	CA	ASN	A	98	15.809	29.073	28.993	1.00	16.01
ATOM	298	C	ASN	A	98	16.963	29.611	29.821	1.00	16.51
ATOM	299	O	ASN	A	98	18.127	29.109	29.709	1.00	16.69
ATOM	300	CB	ASN	A	98	15.401	27.720	29.566	1.00	13.74
ATOM	301	CG	ASN	A	98	13.969	27.359	29.241	1.00	16.04
ATOM	302	OD1	ASN	A	98	13.669	26.795	28.139	1.00	13.27
ATOM	303	ND2	ASN	A	98	13.058	27.680	30.158	1.00	13.26
ATOM	304	N	PHE	A	99	16.688	30.640	30.614	1.00	14.45
ATOM	305	CA	PHE	A	99	17.710	31.196	31.519	1.00	13.19
ATOM	306	C	PHE	A	99	17.453	30.424	32.812	1.00	13.23

ATOM	307	O	PHE	A	99	16.319	30.466	33.384	1.00	11.00
ATOM	308	CB	PHE	A	99	17.491	32.699	31.722	1.00	13.54
ATOM	309	CG	PHE	A	99	18.390	33.318	32.761	1.00	14.79
ATOM	310	CD1	PHE	A	99	19.741	32.978	32.836	1.00	15.02
ATOM	311	CD2	PHE	A	99	17.889	34.258	33.657	1.00	16.17
ATOM	312	CE1	PHE	A	99	20.576	33.564	33.784	1.00	14.99
ATOM	313	CE2	PHE	A	99	18.718	34.852	34.610	1.00	16.36
ATOM	314	CZ	PHE	A	99	20.064	34.503	34.674	1.00	14.33
ATOM	315	N	ALA	A	100	18.457	29.691	33.274	1.00	11.83
ATOM	316	CA	ALA	A	100	18.298	28.889	34.497	1.00	12.34
ATOM	317	C	ALA	A	100	19.594	28.836	35.277	1.00	14.53
ATOM	318	O	ALA	A	100	20.722	28.896	34.684	1.00	15.19
ATOM	319	CB	ALA	A	100	17.849	27.486	34.138	1.00	13.09
ATOM	320	N	VAL	A	101	19.467	28.727	36.595	1.00	13.51
ATOM	321	CA	VAL	A	101	20.640	28.686	37.473	1.00	13.80
ATOM	322	C	VAL	A	101	20.429	27.693	38.610	1.00	15.86
ATOM	323	O	VAL	A	101	19.253	27.424	39.031	1.00	13.90
ATOM	324	CB	VAL	A	101	20.912	30.082	38.075	1.00	14.68
ATOM	325	CG1	VAL	A	101	21.126	31.098	36.962	1.00	12.49
ATOM	326	CG2	VAL	A	101	19.743	30.509	38.953	1.00	13.11
ATOM	327	N	GLY	A	102	21.528	27.120	39.098	1.00	16.51
ATOM	328	CA	GLY	A	102	21.437	26.189	40.207	1.00	17.46
ATOM	329	C	GLY	A	102	20.858	26.966	41.375	1.00	19.61
ATOM	330	O	GLY	A	102	21.303	28.128	41.641	1.00	19.12
ATOM	331	N	ALA	A	103	19.875	26.395	42.065	1.00	19.81
ATOM	332	CA	ALA	A	103	19.241	27.092	43.212	1.00	22.41
ATOM	333	C	ALA	A	103	19.098	26.169	44.414	1.00	23.71
ATOM	334	O	ALA	A	103	18.196	26.366	45.293	1.00	24.50
ATOM	335	CB	ALA	A	103	17.880	27.627	42.807	1.00	21.12
ATOM	336	N	ALA	A	104	19.967	25.168	44.470	1.00	23.53
ATOM	337	CA	ALA	A	104	19.979	24.180	45.566	1.00	24.47
ATOM	338	C	ALA	A	104	21.341	23.505	45.517	1.00	24.98
ATOM	339	O	ALA	A	104	21.974	23.413	44.419	1.00	26.65
ATOM	340	CB	ALA	A	104	18.869	23.150	45.367	1.00	23.55
ATOM	341	N	PRO	A	105	21.836	23.026	46.668	1.00	25.27
ATOM	342	CA	PRO	A	105	23.140	22.361	46.733	1.00	24.87
ATOM	343	C	PRO	A	105	23.328	21.286	45.672	1.00	24.16
ATOM	344	O	PRO	A	105	22.350	20.594	45.251	1.00	24.35
ATOM	345	CB	PRO	A	105	23.159	21.778	48.143	1.00	25.36
ATOM	346	CG	PRO	A	105	22.347	22.763	48.920	1.00	25.71
ATOM	347	CD	PRO	A	105	21.183	23.020	47.990	1.00	25.99
ATOM	348	N	HIS	A	106	24.566	21.135	45.227	1.00	24.93
ATOM	349	CA	HIS	A	106	24.918	20.119	44.223	1.00	23.63
ATOM	350	C	HIS	A	106	26.402	19.843	44.367	1.00	24.29
ATOM	351	O	HIS	A	106	27.207	20.790	44.596	1.00	24.19
ATOM	352	CB	HIS	A	106	24.646	20.622	42.807	1.00	24.15
ATOM	353	CG	HIS	A	106	24.887	19.587	41.756	1.00	24.43
ATOM	354	ND1	HIS	A	106	23.912	18.702	41.348	1.00	25.53
ATOM	355	CD2	HIS	A	106	26.012	19.244	41.084	1.00	23.79
ATOM	356	CE1	HIS	A	106	24.426	17.857	40.471	1.00	25.66
ATOM	357	NE2	HIS	A	106	25.699	18.164	40.294	1.00	24.92
ATOM	358	N	PRO	A	107	26.811	18.572	44.236	1.00	25.36
ATOM	359	CA	PRO	A	107	28.224	18.200	44.358	1.00	26.23
ATOM	360	C	PRO	A	107	29.164	19.025	43.474	1.00	26.26
ATOM	361	O	PRO	A	107	30.335	19.296	43.866	1.00	28.01
ATOM	362	CB	PRO	A	107	28.225	16.722	43.972	1.00	26.21
ATOM	363	CG	PRO	A	107	26.875	16.259	44.418	1.00	26.75
ATOM	364	CD	PRO	A	107	25.977	17.384	43.971	1.00	25.04
ATOM	365	N	PHE	A	108	28.695	19.435	42.299	1.00	25.94
ATOM	366	CA	PHE	A	108	29.556	20.218	41.384	1.00	26.76
ATOM	367	C	PHE	A	108	29.358	21.726	41.450	1.00	26.66
ATOM	368	O	PHE	A	108	30.103	22.494	40.778	1.00	26.81

ATOM	369	CB	PHE	A	108	29.368	19.754	39.936	1.00	26.67
ATOM	370	CG	PHE	A	108	29.665	18.300	39.720	1.00	26.80
ATOM	371	CD1	PHE	A	108	30.531	17.614	40.569	1.00	27.67
ATOM	372	CD2	PHE	A	108	29.090	17.615	38.655	1.00	27.12
ATOM	373	CE1	PHE	A	108	30.819	16.262	40.359	1.00	27.99
ATOM	374	CE2	PHE	A	108	29.369	16.267	38.433	1.00	26.65
ATOM	375	CZ	PHE	A	108	30.235	15.587	39.286	1.00	26.94
ATOM	376	N	LEU	A	109	28.386	22.180	42.231	1.00	26.14
ATOM	377	CA	LEU	A	109	28.144	23.629	42.346	1.00	27.17
ATOM	378	C	LEU	A	109	28.914	24.248	43.510	1.00	29.20
ATOM	379	O	LEU	A	109	28.861	23.743	44.669	1.00	26.91
ATOM	380	CB	LEU	A	109	26.647	23.911	42.498	1.00	25.73
ATOM	381	CG	LEU	A	109	25.811	23.714	41.230	1.00	25.94
ATOM	382	CD1	LEU	A	109	24.343	23.983	41.530	1.00	24.99
ATOM	383	CD2	LEU	A	109	26.310	24.657	40.136	1.00	24.26
ATOM	384	N	HIS	A	110	29.632	25.328	43.213	1.00	32.94
ATOM	385	CA	HIS	A	110	30.442	26.077	44.207	1.00	35.82
ATOM	386	C	HIS	A	110	29.533	27.015	44.983	1.00	33.93
ATOM	387	O	HIS	A	110	29.732	27.265	46.209	1.00	34.20
ATOM	388	CB	HIS	A	110	31.501	26.915	43.485	1.00	42.49
ATOM	389	CG	HIS	A	110	32.907	26.469	43.732	1.00	47.84
ATOM	390	ND1	HIS	A	110	33.509	26.558	44.969	1.00	50.74
ATOM	391	CD2	HIS	A	110	33.834	25.934	42.899	1.00	49.74
ATOM	392	CE1	HIS	A	110	34.746	26.098	44.888	1.00	51.83
ATOM	393	NE2	HIS	A	110	34.968	25.713	43.644	1.00	51.38
ATOM	394	N	ARG	A	111	28.547	27.553	44.279	1.00	31.13
ATOM	395	CA	ARG	A	111	27.579	28.494	44.857	1.00	28.72
ATOM	396	C	ARG	A	111	26.287	28.331	44.072	1.00	28.16
ATOM	397	O	ARG	A	111	26.267	27.652	43.000	1.00	27.40
ATOM	398	CB	ARG	A	111	28.108	29.924	44.717	1.00	28.09
ATOM	399	CG	ARG	A	111	28.550	30.255	43.305	1.00	26.48
ATOM	400	CD	ARG	A	111	29.216	31.616	43.201	1.00	25.86
ATOM	401	NE	ARG	A	111	29.723	31.831	41.849	1.00	25.21
ATOM	402	CZ	ARG	A	111	30.423	32.892	41.465	1.00	24.44
ATOM	403	NH1	ARG	A	111	30.708	33.850	42.337	1.00	25.08
ATOM	404	NH2	ARG	A	111	30.828	32.995	40.205	1.00	22.62
ATOM	405	N	TYR	A	112	25.207	28.922	44.566	1.00	26.27
ATOM	406	CA	TYR	A	112	23.922	28.814	43.866	1.00	23.70
ATOM	407	C	TYR	A	112	22.955	29.916	44.250	1.00	22.77
ATOM	408	O	TYR	A	112	23.140	30.633	45.283	1.00	21.10
ATOM	409	CB	TYR	A	112	23.295	27.437	44.119	1.00	25.47
ATOM	410	CG	TYR	A	112	23.036	27.111	45.575	1.00	27.20
ATOM	411	CD1	TYR	A	112	21.885	27.569	46.222	1.00	28.51
ATOM	412	CD2	TYR	A	112	23.946	26.353	46.309	1.00	27.51
ATOM	413	CE1	TYR	A	112	21.647	27.276	47.565	1.00	27.78
ATOM	414	CE2	TYR	A	112	23.720	26.058	47.651	1.00	28.63
ATOM	415	CZ	TYR	A	112	22.570	26.522	48.270	1.00	28.98
ATOM	416	OH	TYR	A	112	22.352	26.228	49.591	1.00	30.28
ATOM	417	N	TYR	A	113	21.927	30.069	43.428	1.00	19.32
ATOM	418	CA	TYR	A	113	20.896	31.090	43.624	1.00	18.94
ATOM	419	C	TYR	A	113	20.047	30.807	44.857	1.00	17.90
ATOM	420	O	TYR	A	113	19.480	29.688	45.011	1.00	19.37
ATOM	421	CB	TYR	A	113	20.027	31.141	42.369	1.00	17.76
ATOM	422	CG	TYR	A	113	18.887	32.135	42.378	1.00	17.68
ATOM	423	CD1	TYR	A	113	19.024	33.397	42.963	1.00	16.86
ATOM	424	CD2	TYR	A	113	17.709	31.854	41.688	1.00	16.79
ATOM	425	CE1	TYR	A	113	18.020	34.349	42.848	1.00	17.05
ATOM	426	CE2	TYR	A	113	16.704	32.796	41.563	1.00	16.02
ATOM	427	CZ	TYR	A	113	16.858	34.038	42.138	1.00	17.36
ATOM	428	OH	TYR	A	113	15.848	34.963	41.984	1.00	16.62
ATOM	429	N	GLN	A	114	19.967	31.790	45.746	1.00	18.68
ATOM	430	CA	GLN	A	114	19.156	31.673	46.983	1.00	20.28

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ATOM    431  C   GLN A 114      18.057  32.719  46.897  1.00 19.59
ATOM    432  O   GLN A 114      18.285  33.933  47.192  1.00 20.34
ATOM    433  CB  GLN A 114      20.028  31.912  48.216  1.00 19.79
ATOM    434  CG  GLN A 114      21.048  30.814  48.434  1.00 22.79
ATOM    435  CD  GLN A 114      21.942  31.063  49.626  1.00 24.34
ATOM    436  OE1 GLN A 114      22.708  32.073  49.668  1.00 26.47
ATOM    437  NE2 GLN A 114      21.876  30.173  50.606  1.00 24.49
ATOM    438  N   ARG A 115      16.876  32.275  46.479  1.00 20.48
ATOM    439  CA  ARG A 115      15.703  33.159  46.305  1.00 21.24
ATOM    440  C   ARG A 115      15.234  33.837  47.583  1.00 21.94
ATOM    441  O   ARG A 115      14.784  35.022  47.546  1.00 21.40
ATOM    442  CB  ARG A 115      14.550  32.366  45.686  1.00 20.21
ATOM    443  CG  ARG A 115      14.807  31.953  44.240  1.00 20.95
ATOM    444  CD  ARG A 115      13.917  30.796  43.824  1.00 20.32
ATOM    445  NE  ARG A 115      14.305  29.567  44.508  1.00 20.45
ATOM    446  CZ  ARG A 115      13.626  28.428  44.448  1.00 19.47
ATOM    447  NH1 ARG A 115      12.514  28.352  43.732  1.00 20.02
ATOM    448  NH2 ARG A 115      14.061  27.366  45.106  1.00 21.63
ATOM    449  N   GLN A 116      15.323  33.138  48.710  1.00 22.93
ATOM    450  CA  GLN A 116      14.880  33.723  49.993  1.00 24.99
ATOM    451  C   GLN A 116      15.718  34.953  50.343  1.00 23.86
ATOM    452  O   GLN A 116      15.242  35.873  51.080  1.00 24.27
ATOM    453  CB  GLN A 116      14.972  32.691  51.123  1.00 27.81
ATOM    454  CG  GLN A 116      16.391  32.280  51.502  1.00 32.89
ATOM    455  CD  GLN A 116      16.999  31.257  50.550  1.00 36.05
ATOM    456  OE1 GLN A 116      16.955  31.423  49.295  1.00 36.88
ATOM    457  NE2 GLN A 116      17.577  30.199  51.112  1.00 37.21
ATOM    458  N   LEU A 117      16.944  35.006  49.833  1.00 20.91
ATOM    459  CA  LEU A 117      17.831  36.153  50.112  1.00 20.59
ATOM    460  C   LEU A 117      17.673  37.296  49.124  1.00 19.96
ATOM    461  O   LEU A 117      18.440  38.301  49.191  1.00 18.93
ATOM    462  CB  LEU A 117      19.296  35.707  50.128  1.00 21.68
ATOM    463  CG  LEU A 117      19.887  35.224  51.454  1.00 22.49
ATOM    464  CD1 LEU A 117      19.001  34.175  52.074  1.00 22.63
ATOM    465  CD2 LEU A 117      21.286  34.675  51.210  1.00 22.12
ATOM    466  N   SER A 118      16.714  37.183  48.210  1.00 18.14
ATOM    467  CA  SER A 118      16.484  38.252  47.208  1.00 17.08
ATOM    468  C   SER A 118      15.150  38.953  47.436  1.00 16.25
ATOM    469  O   SER A 118      14.055  38.316  47.347  1.00 16.00
ATOM    470  CB  SER A 118      16.519  37.679  45.787  1.00 15.12
ATOM    471  OG  SER A 118      16.301  38.708  44.835  1.00 16.81
ATOM    472  N   SER A 119      15.210  40.250  47.711  1.00 15.31
ATOM    473  CA  SER A 119      13.991  41.044  47.973  1.00 18.09
ATOM    474  C   SER A 119      13.169  41.307  46.714  1.00 17.35
ATOM    475  O   SER A 119      11.964  41.669  46.800  1.00 17.62
ATOM    476  CB  SER A 119      14.371  42.380  48.618  1.00 16.85
ATOM    477  OG  SER A 119      15.158  43.160  47.727  1.00 18.71
ATOM    478  N   THR A 120      13.781  41.137  45.546  1.00 18.90
ATOM    479  CA  THR A 120      13.075  41.381  44.263  1.00 17.26
ATOM    480  C   THR A 120      12.587  40.104  43.594  1.00 17.17
ATOM    481  O   THR A 120      12.004  40.139  42.466  1.00 18.70
ATOM    482  CB  THR A 120      13.980  42.143  43.283  1.00 17.78
ATOM    483  OG1 THR A 120      15.305  41.609  43.355  1.00 17.35
ATOM    484  CG2 THR A 120      14.012  43.630  43.624  1.00 17.37
ATOM    485  N   TYR A 121      12.800  38.977  44.257  1.00 18.03
ATOM    486  CA  TYR A 121      12.364  37.676  43.715  1.00 18.53
ATOM    487  C   TYR A 121      10.841  37.584  43.606  1.00 18.12
ATOM    488  O   TYR A 121      10.088  38.028  44.531  1.00 19.29
ATOM    489  CB  TYR A 121      12.878  36.547  44.607  1.00 18.32
ATOM    490  CG  TYR A 121      12.187  35.225  44.368  1.00 22.03
ATOM    491  CD1 TYR A 121      12.429  34.484  43.209  1.00 21.48
ATOM    492  CD2 TYR A 121      11.268  34.725  45.291  1.00 21.95
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ATOM	493	CE1	TYR	A	121	11.776	33.280	42.977	1.00	21.33
ATOM	494	CE2	TYR	A	121	10.608	33.523	45.067	1.00	22.77
ATOM	495	CZ	TYR	A	121	10.867	32.807	43.908	1.00	23.35
ATOM	496	OH	TYR	A	121	10.206	31.622	43.682	1.00	23.63
ATOM	497	N	ARG	A	122	10.365	37.039	42.492	1.00	16.86
ATOM	498	CA	ARG	A	122	8.909	36.851	42.281	1.00	16.79
ATOM	499	C	ARG	A	122	8.703	35.397	41.890	1.00	17.46
ATOM	500	O	ARG	A	122	9.348	34.884	40.924	1.00	17.88
ATOM	501	CB	ARG	A	122	8.384	37.764	41.174	1.00	14.87
ATOM	502	CG	ARG	A	122	8.335	39.230	41.548	1.00	14.83
ATOM	503	CD	ARG	A	122	7.895	40.067	40.369	1.00	14.98
ATOM	504	NE	ARG	A	122	7.822	41.481	40.706	1.00	16.19
ATOM	505	CZ	ARG	A	122	7.546	42.442	39.833	1.00	16.67
ATOM	506	NH1	ARG	A	122	7.316	42.142	38.559	1.00	15.67
ATOM	507	NH2	ARG	A	122	7.505	43.704	40.233	1.00	16.38
ATOM	508	N	ASP	A	123	7.836	34.720	42.628	1.00	18.52
ATOM	509	CA	ASP	A	123	7.538	33.296	42.388	1.00	19.00
ATOM	510	C	ASP	A	123	6.435	33.147	41.347	1.00	19.87
ATOM	511	O	ASP	A	123	5.342	33.757	41.490	1.00	17.59
ATOM	512	CB	ASP	A	123	7.090	32.657	43.702	1.00	19.80
ATOM	513	CG	ASP	A	123	6.841	31.171	43.582	1.00	20.76
ATOM	514	OD1	ASP	A	123	6.933	30.615	42.463	1.00	20.41
ATOM	515	OD2	ASP	A	123	6.549	30.559	44.629	1.00	22.50
ATOM	516	N	LEU	A	124	6.689	32.359	40.305	1.00	20.70
ATOM	517	CA	LEU	A	124	5.672	32.139	39.255	1.00	21.20
ATOM	518	C	LEU	A	124	4.790	30.929	39.562	1.00	21.64
ATOM	519	O	LEU	A	124	3.832	30.601	38.786	1.00	21.17
ATOM	520	CB	LEU	A	124	6.343	31.978	37.888	1.00	21.51
ATOM	521	CG	LEU	A	124	6.850	33.288	37.270	1.00	22.05
ATOM	522	CD1	LEU	A	124	7.617	32.994	35.997	1.00	22.23
ATOM	523	CD2	LEU	A	124	5.678	34.217	36.983	1.00	21.49
ATOM	524	N	ARG	A	125	5.083	30.252	40.666	1.00	22.67
ATOM	525	CA	ARG	A	125	4.286	29.078	41.085	1.00	25.58
ATOM	526	C	ARG	A	125	4.106	28.081	39.944	1.00	26.39
ATOM	527	O	ARG	A	125	2.974	27.552	39.719	1.00	26.83
ATOM	528	CB	ARG	A	125	2.918	29.553	41.593	1.00	26.62
ATOM	529	CG	ARG	A	125	3.016	30.511	42.783	1.00	30.02
ATOM	530	CD	ARG	A	125	1.733	31.311	43.002	1.00	32.48
ATOM	531	NE	ARG	A	125	1.910	32.334	44.034	1.00	36.63
ATOM	532	CZ	ARG	A	125	1.049	33.323	44.282	1.00	38.12
ATOM	533	NH1	ARG	A	125	-0.070	33.441	43.575	1.00	37.55
ATOM	534	NH2	ARG	A	125	1.307	34.202	45.240	1.00	38.11
ATOM	535	N	LYS	A	126	5.189	27.810	39.221	1.00	26.62
ATOM	536	CA	LYS	A	126	5.162	26.861	38.079	1.00	26.41
ATOM	537	C	LYS	A	126	6.453	26.063	37.986	1.00	24.61
ATOM	538	O	LYS	A	126	7.577	26.624	38.141	1.00	22.46
ATOM	539	CB	LYS	A	126	4.971	27.605	36.756	1.00	28.55
ATOM	540	CG	LYS	A	126	3.539	27.804	36.326	1.00	32.76
ATOM	541	CD	LYS	A	126	3.486	28.380	34.917	1.00	36.53
ATOM	542	CE	LYS	A	126	2.048	28.607	34.456	1.00	38.52
ATOM	543	NZ	LYS	A	126	1.234	27.355	34.550	1.00	40.78
ATOM	544	N	GLY	A	127	6.326	24.770	37.731	1.00	23.25
ATOM	545	CA	GLY	A	127	7.504	23.941	37.598	1.00	22.82
ATOM	546	C	GLY	A	127	7.970	23.995	36.157	1.00	22.77
ATOM	547	O	GLY	A	127	7.220	24.487	35.252	1.00	22.00
ATOM	548	N	VAL	A	128	9.184	23.521	35.909	1.00	21.58
ATOM	549	CA	VAL	A	128	9.731	23.511	34.541	1.00	22.39
ATOM	550	C	VAL	A	128	10.736	22.388	34.390	1.00	21.31
ATOM	551	O	VAL	A	128	11.547	22.101	35.323	1.00	21.59
ATOM	552	CB	VAL	A	128	10.416	24.851	34.180	1.00	21.77
ATOM	553	CG1	VAL	A	128	11.572	25.120	35.122	1.00	22.15
ATOM	554	CG2	VAL	A	128	10.903	24.809	32.740	1.00	23.66

ATOM	555	N	TYR	A	129	10.700	21.744	33.233	1.00	21.64
ATOM	556	CA	TYR	A	129	11.598	20.624	32.933	1.00	21.55
ATOM	557	C	TYR	A	129	12.298	20.882	31.609	1.00	20.25
ATOM	558	O	TYR	A	129	11.635	21.188	30.573	1.00	20.01
ATOM	559	CB	TYR	A	129	10.785	19.333	32.841	1.00	23.37
ATOM	560	CG	TYR	A	129	11.545	18.164	32.271	1.00	26.64
ATOM	561	CD1	TYR	A	129	12.628	17.613	32.956	1.00	27.70
ATOM	562	CD2	TYR	A	129	11.178	17.598	31.048	1.00	27.27
ATOM	563	CE1	TYR	A	129	13.323	16.529	32.443	1.00	29.33
ATOM	564	CE2	TYR	A	129	11.872	16.507	30.524	1.00	28.75
ATOM	565	CZ	TYR	A	129	12.942	15.980	31.231	1.00	28.91
ATOM	566	OH	TYR	A	129	13.634	14.896	30.751	1.00	30.21
ATOM	567	N	VAL	A	130	13.620	20.782	31.602	1.00	19.35
ATOM	568	CA	VAL	A	130	14.353	21.003	30.350	1.00	17.21
ATOM	569	C	VAL	A	130	15.308	19.872	30.022	1.00	16.02
ATOM	570	O	VAL	A	130	16.319	19.628	30.748	1.00	16.89
ATOM	571	CB	VAL	A	130	15.136	22.334	30.370	1.00	17.86
ATOM	572	CG1	VAL	A	130	15.934	22.485	29.075	1.00	15.31
ATOM	573	CG2	VAL	A	130	14.163	23.505	30.525	1.00	15.67
ATOM	574	N	PRO	A	131	15.013	19.136	28.945	1.00	14.83
ATOM	575	CA	PRO	A	131	15.868	18.028	28.529	1.00	14.77
ATOM	576	C	PRO	A	131	16.743	18.516	27.372	1.00	15.00
ATOM	577	O	PRO	A	131	16.234	19.154	26.402	1.00	15.43
ATOM	578	CB	PRO	A	131	14.857	16.971	28.106	1.00	13.57
ATOM	579	CG	PRO	A	131	13.809	17.806	27.421	1.00	13.44
ATOM	580	CD	PRO	A	131	13.706	19.078	28.262	1.00	13.99
ATOM	581	N	TYR	A	132	18.043	18.268	27.465	1.00	14.75
ATOM	582	CA	TYR	A	132	18.989	18.679	26.404	1.00	17.37
ATOM	583	C	TYR	A	132	19.438	17.415	25.676	1.00	17.52
ATOM	584	O	TYR	A	132	19.100	16.274	26.105	1.00	17.41
ATOM	585	CB	TYR	A	132	20.211	19.369	27.020	1.00	16.93
ATOM	586	CG	TYR	A	132	19.909	20.665	27.742	1.00	18.63
ATOM	587	CD1	TYR	A	132	19.834	21.881	27.051	1.00	17.88
ATOM	588	CD2	TYR	A	132	19.706	20.681	29.122	1.00	19.01
ATOM	589	CE1	TYR	A	132	19.564	23.080	27.722	1.00	16.57
ATOM	590	CE2	TYR	A	132	19.435	21.867	29.799	1.00	17.74
ATOM	591	CZ	TYR	A	132	19.365	23.062	29.098	1.00	19.02
ATOM	592	OH	TYR	A	132	19.083	24.229	29.782	1.00	18.23
ATOM	593	N	THR	A	133	20.188	17.574	24.592	1.00	18.46
ATOM	594	CA	THR	A	133	20.686	16.403	23.842	1.00	18.54
ATOM	595	C	THR	A	133	21.525	15.580	24.812	1.00	20.42
ATOM	596	O	THR	A	133	21.667	14.325	24.672	1.00	19.49
ATOM	597	CB	THR	A	133	21.546	16.846	22.653	1.00	18.40
ATOM	598	OG1	THR	A	133	20.720	17.539	21.708	1.00	20.46
ATOM	599	CG2	THR	A	133	22.194	15.645	21.976	1.00	18.37
ATOM	600	N	GLN	A	134	22.064	16.265	25.810	1.00	22.23
ATOM	601	CA	GLN	A	134	22.890	15.624	26.842	1.00	24.27
ATOM	602	C	GLN	A	134	22.723	16.406	28.140	1.00	23.32
ATOM	603	O	GLN	A	134	23.179	17.580	28.252	1.00	21.03
ATOM	604	CB	GLN	A	134	24.352	15.633	26.405	1.00	28.22
ATOM	605	CG	GLN	A	134	25.140	14.412	26.808	1.00	32.76
ATOM	606	CD	GLN	A	134	25.020	13.296	25.781	1.00	36.63
ATOM	607	OE1	GLN	A	134	26.052	12.680	25.356	1.00	37.34
ATOM	608	NE2	GLN	A	134	23.791	13.018	25.352	1.00	38.92
ATOM	609	N	GLY	A	135	22.080	15.789	29.124	1.00	23.28
ATOM	610	CA	GLY	A	135	21.863	16.460	30.391	1.00	21.50
ATOM	611	C	GLY	A	135	20.432	16.946	30.483	1.00	22.11
ATOM	612	O	GLY	A	135	19.735	17.111	29.435	1.00	20.68
ATOM	613	N	LYS	A	136	19.968	17.190	31.703	1.00	22.97
ATOM	614	CA	LYS	A	136	18.584	17.654	31.923	1.00	23.80
ATOM	615	C	LYS	A	136	18.429	18.147	33.353	1.00	22.33
ATOM	616	O	LYS	A	136	19.196	17.719	34.269	1.00	21.42

ATOM	617	CB	LYS	A	136	17.606	16.501	31.677	1.00	25.37
ATOM	618	CG	LYS	A	136	17.823	15.310	32.607	1.00	28.29
ATOM	619	CD	LYS	A	136	16.804	14.196	32.374	1.00	31.54
ATOM	620	CE	LYS	A	136	16.955	13.570	31.000	1.00	34.21
ATOM	621	NZ	LYS	A	136	15.996	12.444	30.789	1.00	37.76
ATOM	622	N	TRP	A	137	17.470	19.040	33.573	1.00	21.02
ATOM	623	CA	TRP	A	137	17.214	19.562	34.928	1.00	20.75
ATOM	624	C	TRP	A	137	15.750	19.907	35.133	1.00	20.62
ATOM	625	O	TRP	A	137	14.951	19.978	34.153	1.00	20.05
ATOM	626	CB	TRP	A	137	18.077	20.800	35.231	1.00	18.46
ATOM	627	CG	TRP	A	137	17.960	21.937	34.248	1.00	18.02
ATOM	628	CD1	TRP	A	137	18.865	22.276	33.281	1.00	18.12
ATOM	629	CD2	TRP	A	137	16.881	22.879	34.134	1.00	17.27
ATOM	630	NE1	TRP	A	137	18.419	23.369	32.574	1.00	17.78
ATOM	631	CE2	TRP	A	137	17.204	23.758	33.074	1.00	17.40
ATOM	632	CE3	TRP	A	137	15.675	23.067	34.823	1.00	17.08
ATOM	633	CZ2	TRP	A	137	16.363	24.807	32.684	1.00	15.50
ATOM	634	CZ3	TRP	A	137	14.836	24.113	34.434	1.00	17.23
ATOM	635	CH2	TRP	A	137	15.188	24.968	33.373	1.00	17.46
ATOM	636	N	GLU	A	138	15.385	20.098	36.395	1.00	21.53
ATOM	637	CA	GLU	A	138	14.014	20.472	36.789	1.00	24.94
ATOM	638	C	GLU	A	138	14.166	21.642	37.745	1.00	23.18
ATOM	639	O	GLU	A	138	15.168	21.719	38.526	1.00	21.21
ATOM	640	CB	GLU	A	138	13.320	19.320	37.515	1.00	28.46
ATOM	641	CG	GLU	A	138	13.053	18.101	36.656	1.00	34.91
ATOM	642	CD	GLU	A	138	12.562	16.919	37.472	1.00	37.93
ATOM	643	OE1	GLU	A	138	12.175	15.897	36.864	1.00	40.28
ATOM	644	OE2	GLU	A	138	12.570	17.009	38.722	1.00	40.20
ATOM	645	N	GLY	A	139	13.214	22.559	37.711	1.00	22.13
ATOM	646	CA	GLY	A	139	13.298	23.693	38.604	1.00	22.60
ATOM	647	C	GLY	A	139	11.975	24.402	38.713	1.00	21.54
ATOM	648	O	GLY	A	139	10.949	23.953	38.116	1.00	23.29
ATOM	649	N	GLU	A	140	11.962	25.494	39.465	1.00	21.74
ATOM	650	CA	GLU	A	140	10.733	26.284	39.648	1.00	21.81
ATOM	651	C	GLU	A	140	10.900	27.646	38.998	1.00	19.04
ATOM	652	O	GLU	A	140	11.975	28.304	39.125	1.00	18.42
ATOM	653	CB	GLU	A	140	10.404	26.425	41.139	1.00	24.39
ATOM	654	CG	GLU	A	140	11.479	25.887	42.065	1.00	28.61
ATOM	655	CD	GLU	A	140	10.922	25.385	43.383	1.00	29.72
ATOM	656	OE1	GLU	A	140	10.311	24.297	43.389	1.00	31.43
ATOM	657	OE2	GLU	A	140	11.091	26.077	44.410	1.00	30.48
ATOM	658	N	LEU	A	141	9.870	28.071	38.278	1.00	16.35
ATOM	659	CA	LEU	A	141	9.901	29.360	37.585	1.00	15.48
ATOM	660	C	LEU	A	141	9.674	30.546	38.511	1.00	15.68
ATOM	661	O	LEU	A	141	8.832	30.499	39.466	1.00	13.45
ATOM	662	CB	LEU	A	141	8.864	29.376	36.460	1.00	15.23
ATOM	663	CG	LEU	A	141	9.145	28.412	35.300	1.00	16.27
ATOM	664	CD1	LEU	A	141	8.008	28.461	34.300	1.00	15.60
ATOM	665	CD2	LEU	A	141	10.458	28.785	34.627	1.00	16.48
ATOM	666	N	GLY	A	142	10.424	31.608	38.241	1.00	15.15
ATOM	667	CA	GLY	A	142	10.323	32.819	39.015	1.00	12.33
ATOM	668	C	GLY	A	142	10.845	33.953	38.167	1.00	14.67
ATOM	669	O	GLY	A	142	11.242	33.758	36.971	1.00	13.75
ATOM	670	N	THR	A	143	10.877	35.137	38.754	1.00	14.88
ATOM	671	CA	THR	A	143	11.354	36.324	38.050	1.00	15.26
ATOM	672	C	THR	A	143	12.262	37.103	39.008	1.00	14.53
ATOM	673	O	THR	A	143	12.119	36.991	40.269	1.00	13.46
ATOM	674	CB	THR	A	143	10.131	37.154	37.600	1.00	16.18
ATOM	675	OG1	THR	A	143	10.192	37.362	36.187	1.00	20.69
ATOM	676	CG2	THR	A	143	10.058	38.465	38.325	1.00	12.43
ATOM	677	N	ASP	A	144	13.202	37.866	38.466	1.00	14.22
ATOM	678	CA	ASP	A	144	14.117	38.652	39.321	1.00	15.38

ATOM	679	C	ASP	A	144	14.942	39.609	38.479	1.00	15.67
ATOM	680	O	ASP	A	144	14.984	39.496	37.208	1.00	16.83
ATOM	681	CB	ASP	A	144	15.063	37.721	40.086	1.00	15.20
ATOM	682	CG	ASP	A	144	15.367	38.218	41.496	1.00	17.84
ATOM	683	OD1	ASP	A	144	15.359	39.447	41.724	1.00	16.62
ATOM	684	OD2	ASP	A	144	15.630	37.373	42.379	1.00	16.33
ATOM	685	N	LEU	A	145	15.596	40.551	39.147	1.00	16.74
ATOM	686	CA	LEU	A	145	16.442	41.537	38.454	1.00	18.66
ATOM	687	C	LEU	A	145	17.757	40.854	38.101	1.00	20.21
ATOM	688	O	LEU	A	145	18.381	40.147	38.961	1.00	21.75
ATOM	689	CB	LEU	A	145	16.697	42.746	39.351	1.00	18.43
ATOM	690	CG	LEU	A	145	15.452	43.522	39.786	1.00	19.69
ATOM	691	CD1	LEU	A	145	15.878	44.720	40.628	1.00	19.11
ATOM	692	CD2	LEU	A	145	14.660	43.971	38.557	1.00	18.50
ATOM	693	N	VAL	A	146	18.186	41.030	36.858	1.00	20.48
ATOM	694	CA	VAL	A	146	19.426	40.402	36.387	1.00	21.21
ATOM	695	C	VAL	A	146	20.331	41.426	35.725	1.00	22.80
ATOM	696	O	VAL	A	146	19.849	42.386	35.045	1.00	22.16
ATOM	697	CB	VAL	A	146	19.118	39.265	35.373	1.00	20.39
ATOM	698	CG1	VAL	A	146	20.405	38.575	34.941	1.00	20.39
ATOM	699	CG2	VAL	A	146	18.163	38.261	35.998	1.00	17.90
ATOM	700	N	SER	A	147	21.633	41.251	35.913	1.00	22.35
ATOM	701	CA	SER	A	147	22.615	42.158	35.309	1.00	23.39
ATOM	702	C	SER	A	147	23.829	41.383	34.833	1.00	21.77
ATOM	703	O	SER	A	147	24.119	40.242	35.321	1.00	20.08
ATOM	704	CB	SER	A	147	23.059	43.225	36.316	1.00	25.41
ATOM	705	OG	SER	A	147	21.993	44.107	36.627	1.00	31.97
ATOM	706	N	ILE	A	148	24.534	41.972	33.878	1.00	19.69
ATOM	707	CA	ILE	A	148	25.757	41.377	33.329	1.00	19.14
ATOM	708	C	ILE	A	148	26.853	42.405	33.614	1.00	18.85
ATOM	709	O	ILE	A	148	27.021	43.408	32.853	1.00	17.87
ATOM	710	CB	ILE	A	148	25.618	41.137	31.817	1.00	18.61
ATOM	711	CG1	ILE	A	148	24.449	40.181	31.559	1.00	19.01
ATOM	712	CG2	ILE	A	148	26.909	40.564	31.255	1.00	17.68
ATOM	713	CD1	ILE	A	148	24.221	39.864	30.097	1.00	19.61
ATOM	714	N	PRO	A	149	27.601	42.214	34.711	1.00	17.99
ATOM	715	CA	PRO	A	149	28.679	43.134	35.095	1.00	21.17
ATOM	716	C	PRO	A	149	29.523	43.638	33.926	1.00	22.18
ATOM	717	O	PRO	A	149	29.800	44.869	33.823	1.00	24.08
ATOM	718	CB	PRO	A	149	29.485	42.317	36.103	1.00	19.87
ATOM	719	CG	PRO	A	149	28.404	41.529	36.797	1.00	19.57
ATOM	720	CD	PRO	A	149	27.542	41.061	35.628	1.00	17.55
ATOM	721	N	HIS	A	150	29.930	42.733	33.041	1.00	23.43
ATOM	722	CA	HIS	A	150	30.748	43.119	31.869	1.00	23.84
ATOM	723	C	HIS	A	150	29.933	43.067	30.588	1.00	24.47
ATOM	724	O	HIS	A	150	30.334	42.431	29.566	1.00	25.89
ATOM	725	CB	HIS	A	150	31.968	42.211	31.765	1.00	23.54
ATOM	726	CG	HIS	A	150	32.880	42.313	32.945	1.00	26.15
ATOM	727	ND1	HIS	A	150	33.619	43.446	33.216	1.00	27.28
ATOM	728	CD2	HIS	A	150	33.149	41.439	33.943	1.00	26.32
ATOM	729	CE1	HIS	A	150	34.305	43.264	34.330	1.00	27.48
ATOM	730	NE2	HIS	A	150	34.038	42.055	34.791	1.00	28.01
ATOM	731	N	GLY	A	151	28.785	43.727	30.630	1.00	25.49
ATOM	732	CA	GLY	A	151	27.906	43.784	29.485	1.00	26.41
ATOM	733	C	GLY	A	151	27.325	45.179	29.468	1.00	27.16
ATOM	734	O	GLY	A	151	27.981	46.136	29.983	1.00	26.97
ATOM	735	N	PRO	A	152	26.125	45.370	28.903	1.00	28.12
ATOM	736	CA	PRO	A	152	25.540	46.712	28.880	1.00	28.75
ATOM	737	C	PRO	A	152	25.219	47.165	30.304	1.00	30.53
ATOM	738	O	PRO	A	152	24.844	46.331	31.182	1.00	28.62
ATOM	739	CB	PRO	A	152	24.294	46.528	28.017	1.00	29.49
ATOM	740	CG	PRO	A	152	23.897	45.105	28.303	1.00	29.85

ATOM	741	CD	PRO	A	152	25.227	44.385	28.277	1.00	28.15
ATOM	742	N	ASN	A	153	25.375	48.457	30.560	1.00	33.03
ATOM	743	CA	ASN	A	153	25.111	49.016	31.902	1.00	34.39
ATOM	744	C	ASN	A	153	23.604	49.096	32.144	1.00	33.81
ATOM	745	O	ASN	A	153	23.009	50.218	32.222	1.00	33.63
ATOM	746	CB	ASN	A	153	25.755	50.401	32.009	1.00	37.16
ATOM	747	CG	ASN	A	153	25.680	50.978	33.406	1.00	38.88
ATOM	748	OD1	ASN	A	153	25.974	50.272	34.416	1.00	40.17
ATOM	749	ND2	ASN	A	153	25.309	52.251	33.504	1.00	39.91
ATOM	750	N	VAL	A	154	22.971	47.934	32.265	1.00	31.55
ATOM	751	CA	VAL	A	154	21.514	47.872	32.486	1.00	29.59
ATOM	752	C	VAL	A	154	21.113	46.739	33.418	1.00	29.47
ATOM	753	O	VAL	A	154	21.924	45.809	33.718	1.00	30.24
ATOM	754	CB	VAL	A	154	20.755	47.681	31.154	1.00	29.95
ATOM	755	CG1	VAL	A	154	20.990	48.875	30.242	1.00	29.70
ATOM	756	CG2	VAL	A	154	21.216	46.397	30.474	1.00	28.94
ATOM	757	N	THR	A	155	19.874	46.799	33.882	1.00	27.83
ATOM	758	CA	THR	A	155	19.323	45.773	34.779	1.00	27.61
ATOM	759	C	THR	A	155	17.918	45.472	34.296	1.00	26.01
ATOM	760	O	THR	A	155	17.114	46.413	34.041	1.00	27.70
ATOM	761	CB	THR	A	155	19.268	46.280	36.229	1.00	27.24
ATOM	762	OG1	THR	A	155	20.603	46.486	36.703	1.00	29.54
ATOM	763	CG2	THR	A	155	18.573	45.270	37.129	1.00	27.37
ATOM	764	N	VAL	A	156	17.592	44.197	34.143	1.00	24.69
ATOM	765	CA	VAL	A	156	16.241	43.847	33.672	1.00	24.32
ATOM	766	C	VAL	A	156	15.631	42.736	34.504	1.00	23.23
ATOM	767	O	VAL	A	156	16.364	41.920	35.154	1.00	23.57
ATOM	768	CB	VAL	A	156	16.253	43.402	32.184	1.00	25.34
ATOM	769	CG1	VAL	A	156	17.178	44.302	31.379	1.00	26.63
ATOM	770	CG2	VAL	A	156	16.684	41.960	32.063	1.00	24.89
ATOM	771	N	ARG	A	157	14.306	42.687	34.521	1.00	21.44
ATOM	772	CA	ARG	A	157	13.613	41.626	35.262	1.00	20.90
ATOM	773	C	ARG	A	157	13.374	40.560	34.215	1.00	20.13
ATOM	774	O	ARG	A	157	12.746	40.836	33.152	1.00	19.99
ATOM	775	CB	ARG	A	157	12.280	42.121	35.830	1.00	20.03
ATOM	776	CG	ARG	A	157	11.528	41.053	36.621	1.00	18.95
ATOM	777	CD	ARG	A	157	10.271	41.616	37.260	1.00	18.99
ATOM	778	NE	ARG	A	157	10.554	42.408	38.456	1.00	18.47
ATOM	779	CZ	ARG	A	157	10.973	41.902	39.613	1.00	19.19
ATOM	780	NH1	ARG	A	157	11.167	40.596	39.747	1.00	18.30
ATOM	781	NH2	ARG	A	157	11.178	42.703	40.650	1.00	15.82
ATOM	782	N	ALA	A	158	13.878	39.359	34.463	1.00	20.27
ATOM	783	CA	ALA	A	158	13.713	38.266	33.496	1.00	19.08
ATOM	784	C	ALA	A	158	13.279	36.986	34.175	1.00	19.45
ATOM	785	O	ALA	A	158	13.379	36.845	35.432	1.00	19.64
ATOM	786	CB	ALA	A	158	15.017	38.031	32.756	1.00	18.56
ATOM	787	N	ASN	A	159	12.792	36.053	33.370	1.00	18.08
ATOM	788	CA	ASN	A	159	12.363	34.756	33.876	1.00	18.21
ATOM	789	C	ASN	A	159	13.607	33.992	34.282	1.00	18.60
ATOM	790	O	ASN	A	159	14.666	34.033	33.577	1.00	19.42
ATOM	791	CB	ASN	A	159	11.601	33.992	32.797	1.00	16.91
ATOM	792	CG	ASN	A	159	10.282	34.647	32.459	1.00	18.46
ATOM	793	OD1	ASN	A	159	9.479	34.978	33.381	1.00	19.46
ATOM	794	ND2	ASN	A	159	10.020	34.848	31.174	1.00	16.51
ATOM	795	N	ILE	A	160	13.518	33.311	35.412	1.00	18.73
ATOM	796	CA	ILE	A	160	14.643	32.529	35.916	1.00	17.64
ATOM	797	C	ILE	A	160	14.112	31.191	36.373	1.00	19.09
ATOM	798	O	ILE	A	160	13.122	31.125	37.176	1.00	18.38
ATOM	799	CB	ILE	A	160	15.319	33.212	37.128	1.00	18.36
ATOM	800	CG1	ILE	A	160	15.764	34.629	36.758	1.00	17.90
ATOM	801	CG2	ILE	A	160	16.521	32.394	37.585	1.00	17.16
ATOM	802	CD1	ILE	A	160	16.521	35.336	37.875	1.00	18.56

ATOM	803	N	ALA	A	161	14.717	30.123	35.871	1.00	17.55
ATOM	804	CA	ALA	A	161	14.314	28.778	36.275	1.00	18.11
ATOM	805	C	ALA	A	161	15.267	28.394	37.399	1.00	18.26
ATOM	806	O	ALA	A	161	16.507	28.223	37.166	1.00	17.61
ATOM	807	CB	ALA	A	161	14.447	27.805	35.105	1.00	17.28
ATOM	808	N	ALA	A	162	14.737	28.283	38.614	1.00	17.99
ATOM	809	CA	ALA	A	162	15.567	27.901	39.775	1.00	18.02
ATOM	810	C	ALA	A	162	15.746	26.382	39.774	1.00	18.52
ATOM	811	O	ALA	A	162	14.835	25.619	40.207	1.00	18.43
ATOM	812	CB	ALA	A	162	14.897	28.359	41.067	1.00	17.36
ATOM	813	N	ILE	A	163	16.900	25.928	39.300	1.00	19.89
ATOM	814	CA	ILE	A	163	17.204	24.480	39.215	1.00	18.56
ATOM	815	C	ILE	A	163	17.314	23.802	40.577	1.00	20.34
ATOM	816	O	ILE	A	163	18.238	24.122	41.402	1.00	19.83
ATOM	817	CB	ILE	A	163	18.512	24.245	38.430	1.00	17.19
ATOM	818	CG1	ILE	A	163	18.347	24.753	36.994	1.00	16.02
ATOM	819	CG2	ILE	A	163	18.874	22.761	38.445	1.00	14.93
ATOM	820	CD1	ILE	A	163	19.628	24.735	36.174	1.00	16.24
ATOM	821	N	THR	A	164	16.409	22.860	40.826	1.00	20.42
ATOM	822	CA	THR	A	164	16.379	22.122	42.112	1.00	23.01
ATOM	823	C	THR	A	164	16.817	20.665	41.958	1.00	24.30
ATOM	824	O	THR	A	164	17.119	19.966	42.973	1.00	26.25
ATOM	825	CB	THR	A	164	14.966	22.173	42.735	1.00	22.01
ATOM	826	OG1	THR	A	164	13.990	21.799	41.754	1.00	22.15
ATOM	827	CG2	THR	A	164	14.656	23.584	43.214	1.00	22.73
ATOM	828	N	GLU	A	165	16.858	20.187	40.721	1.00	25.84
ATOM	829	CA	GLU	A	165	17.281	18.804	40.444	1.00	27.82
ATOM	830	C	GLU	A	165	17.800	18.693	39.024	1.00	26.80
ATOM	831	O	GLU	A	165	17.246	19.323	38.072	1.00	26.59
ATOM	832	CB	GLU	A	165	16.121	17.834	40.678	1.00	31.67
ATOM	833	CG	GLU	A	165	16.233	17.118	42.020	1.00	38.94
ATOM	834	CD	GLU	A	165	14.913	16.568	42.519	1.00	41.54
ATOM	835	OE1	GLU	A	165	14.282	15.765	41.796	1.00	44.35
ATOM	836	OE2	GLU	A	165	14.510	16.940	43.644	1.00	43.84
ATOM	837	N	SER	A	166	18.861	17.919	38.852	1.00	24.81
ATOM	838	CA	SER	A	166	19.455	17.765	37.525	1.00	25.32
ATOM	839	C	SER	A	166	20.213	16.459	37.397	1.00	25.44
ATOM	840	O	SER	A	166	20.551	15.795	38.427	1.00	24.00
ATOM	841	CB	SER	A	166	20.405	18.928	37.255	1.00	23.13
ATOM	842	OG	SER	A	166	21.444	18.939	38.217	1.00	21.22
ATOM	843	N	ASP	A	167	20.490	16.079	36.155	1.00	26.01
ATOM	844	CA	ASP	A	167	21.227	14.842	35.871	1.00	26.62
ATOM	845	C	ASP	A	167	22.138	15.038	34.671	1.00	25.62
ATOM	846	O	ASP	A	167	21.656	15.300	33.528	1.00	24.35
ATOM	847	CB	ASP	A	167	20.253	13.691	35.601	1.00	30.53
ATOM	848	CG	ASP	A	167	20.966	12.370	35.387	1.00	32.67
ATOM	849	OD1	ASP	A	167	21.912	12.083	36.152	1.00	36.14
ATOM	850	OD2	ASP	A	167	20.586	11.615	34.469	1.00	34.63
ATOM	851	N	LYS	A	168	23.440	14.930	34.910	1.00	25.32
ATOM	852	CA	LYS	A	168	24.461	15.078	33.847	1.00	25.94
ATOM	853	C	LYS	A	168	24.416	16.445	33.175	1.00	25.49
ATOM	854	O	LYS	A	168	24.742	16.580	31.955	1.00	25.50
ATOM	855	CB	LYS	A	168	24.282	13.979	32.800	1.00	27.68
ATOM	856	CG	LYS	A	168	24.408	12.570	33.362	1.00	30.33
ATOM	857	CD	LYS	A	168	24.117	11.532	32.292	1.00	32.36
ATOM	858	CE	LYS	A	168	24.205	10.126	32.855	1.00	34.37
ATOM	859	NZ	LYS	A	168	23.889	9.101	31.821	1.00	36.50
ATOM	860	N	PHE	A	169	24.024	17.460	33.937	1.00	22.87
ATOM	861	CA	PHE	A	169	23.942	18.835	33.418	1.00	20.96
ATOM	862	C	PHE	A	169	25.158	19.616	33.897	1.00	22.06
ATOM	863	O	PHE	A	169	25.983	20.119	33.069	1.00	20.71
ATOM	864	CB	PHE	A	169	22.668	19.506	33.919	1.00	19.76

ATOM	865	CG	PHE	A	169	22.526	20.931	33.479	1.00	18.95
ATOM	866	CD1	PHE	A	169	22.400	21.248	32.130	1.00	18.27
ATOM	867	CD2	PHE	A	169	22.525	21.963	34.416	1.00	18.36
ATOM	868	CE1	PHE	A	169	22.275	22.571	31.720	1.00	16.94
ATOM	869	CE2	PHE	A	169	22.401	23.287	34.013	1.00	17.25
ATOM	870	CZ	PHE	A	169	22.275	23.590	32.661	1.00	16.89
ATOM	871	N	PHE	A	170	25.292	19.738	35.212	1.00	20.46
ATOM	872	CA	PHE	A	170	26.438	20.452	35.788	1.00	21.45
ATOM	873	C	PHE	A	170	27.702	19.620	35.574	1.00	22.40
ATOM	874	O	PHE	A	170	27.675	18.355	35.665	1.00	22.55
ATOM	875	CB	PHE	A	170	26.205	20.705	37.281	1.00	19.44
ATOM	876	CG	PHE	A	170	25.079	21.663	37.559	1.00	18.44
ATOM	877	CD1	PHE	A	170	23.988	21.276	38.330	1.00	18.45
ATOM	878	CD2	PHE	A	170	25.098	22.948	37.025	1.00	16.73
ATOM	879	CE1	PHE	A	170	22.932	22.154	38.563	1.00	17.50
ATOM	880	CE2	PHE	A	170	24.046	23.832	37.253	1.00	17.78
ATOM	881	CZ	PHE	A	170	22.963	23.432	38.023	1.00	16.39
ATOM	882	N	ILE	A	171	28.805	20.297	35.272	1.00	23.10
ATOM	883	CA	ILE	A	171	30.095	19.615	35.043	1.00	22.87
ATOM	884	C	ILE	A	171	31.057	19.962	36.163	1.00	24.02
ATOM	885	O	ILE	A	171	31.222	21.162	36.537	1.00	22.48
ATOM	886	CB	ILE	A	171	30.729	20.048	33.704	1.00	24.70
ATOM	887	CG1	ILE	A	171	29.823	19.632	32.544	1.00	22.57
ATOM	888	CG2	ILE	A	171	32.123	19.434	33.558	1.00	22.35
ATOM	889	CD1	ILE	A	171	30.319	20.100	31.192	1.00	23.46
ATOM	890	N	ASN	A	172	31.702	18.942	36.709	1.00	27.12
ATOM	891	CA	ASN	A	172	32.657	19.143	37.809	1.00	30.01
ATOM	892	C	ASN	A	172	33.864	19.975	37.359	1.00	29.57
ATOM	893	O	ASN	A	172	34.616	19.574	36.418	1.00	29.20
ATOM	894	CB	ASN	A	172	33.105	17.779	38.337	1.00	31.92
ATOM	895	CG	ASN	A	172	33.913	17.885	39.608	1.00	34.74
ATOM	896	OD1	ASN	A	172	33.615	18.737	40.504	1.00	36.04
ATOM	897	ND2	ASN	A	172	34.927	17.034	39.734	1.00	36.14
ATOM	898	N	GLY	A	173	34.049	21.132	37.991	1.00	28.24
ATOM	899	CA	GLY	A	173	35.166	22.001	37.659	1.00	27.99
ATOM	900	C	GLY	A	173	34.973	22.938	36.476	1.00	28.87
ATOM	901	O	GLY	A	173	35.944	23.644	36.063	1.00	29.20
ATOM	902	N	SER	A	174	33.769	22.988	35.914	1.00	28.95
ATOM	903	CA	SER	A	174	33.498	23.880	34.748	1.00	29.13
ATOM	904	C	SER	A	174	33.524	25.348	35.168	1.00	27.92
ATOM	905	O	SER	A	174	33.878	26.255	34.354	1.00	29.51
ATOM	906	CB	SER	A	174	32.130	23.562	34.148	1.00	28.90
ATOM	907	OG	SER	A	174	31.102	23.922	35.054	1.00	30.49
ATOM	908	N	ASN	A	175	33.140	25.593	36.416	1.00	25.45
ATOM	909	CA	ASN	A	175	33.095	26.951	37.011	1.00	23.59
ATOM	910	C	ASN	A	175	31.855	27.767	36.647	1.00	21.71
ATOM	911	O	ASN	A	175	31.828	29.019	36.853	1.00	20.11
ATOM	912	CB	ASN	A	175	34.354	27.754	36.662	1.00	27.01
ATOM	913	CG	ASN	A	175	34.548	28.950	37.582	1.00	29.09
ATOM	914	OD1	ASN	A	175	34.648	28.794	38.840	1.00	30.19
ATOM	915	ND2	ASN	A	175	34.600	30.144	37.004	1.00	30.01
ATOM	916	N	TRP	A	176	30.841	27.121	36.078	1.00	16.70
ATOM	917	CA	TRP	A	176	29.590	27.847	35.790	1.00	18.41
ATOM	918	C	TRP	A	176	28.482	27.170	36.580	1.00	17.87
ATOM	919	O	TRP	A	176	28.534	25.927	36.838	1.00	15.45
ATOM	920	CB	TRP	A	176	29.248	27.888	34.292	1.00	16.48
ATOM	921	CG	TRP	A	176	29.257	26.588	33.563	1.00	17.63
ATOM	922	CD1	TRP	A	176	30.291	26.063	32.842	1.00	17.33
ATOM	923	CD2	TRP	A	176	28.165	25.668	33.425	1.00	17.78
ATOM	924	NE1	TRP	A	176	29.911	24.881	32.258	1.00	16.01
ATOM	925	CE2	TRP	A	176	28.612	24.613	32.599	1.00	16.95
ATOM	926	CE3	TRP	A	176	26.852	25.635	33.918	1.00	18.29

ATOM	927	CZ2	TRP	A	176	27.794	23.532	32.252	1.00	17.40
ATOM	928	CZ3	TRP	A	176	26.034	24.557	33.573	1.00	19.02
ATOM	929	CH2	TRP	A	176	26.512	23.521	32.747	1.00	19.06
ATOM	930	N	GLU	A	177	27.496	27.950	37.005	1.00	18.68
ATOM	931	CA	GLU	A	177	26.387	27.385	37.797	1.00	21.01
ATOM	932	C	GLU	A	177	25.024	27.700	37.224	1.00	20.81
ATOM	933	O	GLU	A	177	23.977	27.582	37.938	1.00	21.08
ATOM	934	CB	GLU	A	177	26.461	27.869	39.250	1.00	22.84
ATOM	935	CG	GLU	A	177	26.865	29.322	39.443	1.00	26.63
ATOM	936	CD	GLU	A	177	28.377	29.531	39.446	1.00	27.90
ATOM	937	OE1	GLU	A	177	29.121	28.568	39.726	1.00	28.44
ATOM	938	OE2	GLU	A	177	28.818	30.670	39.186	1.00	28.24
ATOM	939	N	GLY	A	178	25.007	28.088	35.953	1.00	18.48
ATOM	940	CA	GLY	A	178	23.759	28.411	35.295	1.00	16.82
ATOM	941	C	GLY	A	178	23.929	28.406	33.791	1.00	15.90
ATOM	942	O	GLY	A	178	25.070	28.248	33.264	1.00	15.75
ATOM	943	N	ILE	A	179	22.831	28.589	33.076	1.00	14.53
ATOM	944	CA	ILE	A	179	22.882	28.588	31.610	1.00	14.26
ATOM	945	C	ILE	A	179	22.007	29.701	31.057	1.00	14.53
ATOM	946	O	ILE	A	179	20.896	29.980	31.603	1.00	15.23
ATOM	947	CB	ILE	A	179	22.428	27.217	31.069	1.00	14.45
ATOM	948	CG1	ILE	A	179	22.535	27.183	29.548	1.00	14.28
ATOM	949	CG2	ILE	A	179	21.002	26.921	31.525	1.00	13.41
ATOM	950	CD1	ILE	A	179	22.359	25.788	28.974	1.00	13.85
ATOM	951	N	LEU	A	180	22.489	30.350	29.998	1.00	14.91
ATOM	952	CA	LEU	A	180	21.763	31.464	29.353	1.00	14.24
ATOM	953	C	LEU	A	180	21.311	31.050	27.961	1.00	15.19
ATOM	954	O	LEU	A	180	22.117	31.115	26.973	1.00	15.79
ATOM	955	CB	LEU	A	180	22.675	32.690	29.223	1.00	14.83
ATOM	956	CG	LEU	A	180	22.078	34.107	29.257	1.00	16.59
ATOM	957	CD1	LEU	A	180	22.902	34.996	28.351	1.00	15.04
ATOM	958	CD2	LEU	A	180	20.622	34.120	28.818	1.00	17.08
ATOM	959	N	GLY	A	181	20.057	30.621	27.851	1.00	15.40
ATOM	960	CA	GLY	A	181	19.525	30.227	26.561	1.00	13.68
ATOM	961	C	GLY	A	181	19.276	31.481	25.741	1.00	15.03
ATOM	962	O	GLY	A	181	18.402	32.330	26.107	1.00	14.58
ATOM	963	N	LEU	A	182	20.002	31.629	24.638	1.00	12.84
ATOM	964	CA	LEU	A	182	19.859	32.831	23.787	1.00	13.53
ATOM	965	C	LEU	A	182	19.029	32.646	22.521	1.00	14.25
ATOM	966	O	LEU	A	182	18.883	33.607	21.701	1.00	13.52
ATOM	967	CB	LEU	A	182	21.250	33.352	23.418	1.00	13.44
ATOM	968	CG	LEU	A	182	22.036	33.949	24.583	1.00	11.84
ATOM	969	CD1	LEU	A	182	23.506	34.067	24.211	1.00	11.17
ATOM	970	CD2	LEU	A	182	21.450	35.311	24.936	1.00	12.14
ATOM	971	N	ALA	A	183	18.491	31.449	22.322	1.00	15.12
ATOM	972	CA	ALA	A	183	17.660	31.183	21.131	1.00	15.16
ATOM	973	C	ALA	A	183	16.276	31.788	21.361	1.00	17.66
ATOM	974	O	ALA	A	183	16.053	32.526	22.377	1.00	16.26
ATOM	975	CB	ALA	A	183	17.557	29.684	20.875	1.00	14.23
ATOM	976	N	TYR	A	184	15.338	31.487	20.466	1.00	18.41
ATOM	977	CA	TYR	A	184	13.976	32.060	20.550	1.00	17.40
ATOM	978	C	TYR	A	184	12.953	31.334	21.424	1.00	18.41
ATOM	979	O	TYR	A	184	13.131	30.135	21.807	1.00	14.95
ATOM	980	CB	TYR	A	184	13.411	32.237	19.138	1.00	18.07
ATOM	981	CG	TYR	A	184	14.327	33.017	18.216	1.00	19.50
ATOM	982	CD1	TYR	A	184	15.295	32.367	17.446	1.00	19.23
ATOM	983	CD2	TYR	A	184	14.233	34.408	18.119	1.00	19.65
ATOM	984	CE1	TYR	A	184	16.144	33.083	16.599	1.00	19.22
ATOM	985	CE2	TYR	A	184	15.079	35.134	17.279	1.00	19.50
ATOM	986	CZ	TYR	A	184	16.027	34.466	16.521	1.00	19.86
ATOM	987	OH	TYR	A	184	16.842	35.185	15.670	1.00	20.69
ATOM	988	N	ALA	A	185	11.873	32.046	21.734	1.00	16.29

ATOM	989	CA	ALA	A	185	10.784	31.519	22.592	1.00	17.90
ATOM	990	C	ALA	A	185	10.185	30.221	22.068	1.00	17.38
ATOM	991	O	ALA	A	185	9.682	29.372	22.869	1.00	15.41
ATOM	992	CB	ALA	A	185	9.690	32.579	22.742	1.00	15.99
ATOM	993	N	GLU	A	186	10.232	30.046	20.751	1.00	20.56
ATOM	994	CA	GLU	A	186	9.679	28.846	20.086	1.00	23.43
ATOM	995	C	GLU	A	186	10.169	27.533	20.690	1.00	23.87
ATOM	996	O	GLU	A	186	9.448	26.486	20.619	1.00	24.67
ATOM	997	CB	GLU	A	186	10.009	28.887	18.591	1.00	27.60
ATOM	998	CG	GLU	A	186	9.447	27.729	17.786	1.00	32.42
ATOM	999	CD	GLU	A	186	7.941	27.593	17.923	1.00	36.08
ATOM	1000	OE1	GLU	A	186	7.255	28.633	18.041	1.00	39.03
ATOM	1001	OE2	GLU	A	186	7.439	26.448	17.900	1.00	37.05
ATOM	1002	N	ILE	A	187	11.363	27.540	21.283	1.00	22.31
ATOM	1003	CA	ILE	A	187	11.904	26.302	21.900	1.00	19.35
ATOM	1004	C	ILE	A	187	12.113	26.441	23.403	1.00	20.13
ATOM	1005	O	ILE	A	187	12.887	25.654	24.034	1.00	19.35
ATOM	1006	CB	ILE	A	187	13.241	25.872	21.248	1.00	19.03
ATOM	1007	CG1	ILE	A	187	14.270	26.998	21.355	1.00	18.36
ATOM	1008	CG2	ILE	A	187	13.008	25.488	19.795	1.00	19.03
ATOM	1009	CD1	ILE	A	187	15.627	26.635	20.780	1.00	17.45
ATOM	1010	N	ALA	A	188	11.441	27.416	23.999	1.00	19.82
ATOM	1011	CA	ALA	A	188	11.551	27.636	25.454	1.00	20.35
ATOM	1012	C	ALA	A	188	10.622	26.661	26.171	1.00	19.60
ATOM	1013	O	ALA	A	188	9.554	26.277	25.618	1.00	19.52
ATOM	1014	CB	ALA	A	188	11.160	29.083	25.793	1.00	17.16
ATOM	1015	N	ARG	A	189	11.004	26.231	27.372	1.00	20.77
ATOM	1016	CA	ARG	A	189	10.142	25.324	28.164	1.00	21.43
ATOM	1017	C	ARG	A	189	9.577	26.162	29.303	1.00	22.80
ATOM	1018	O	ARG	A	189	10.274	27.099	29.817	1.00	23.68
ATOM	1019	CB	ARG	A	189	10.949	24.151	28.753	1.00	22.36
ATOM	1020	CG	ARG	A	189	11.689	23.285	27.729	1.00	23.90
ATOM	1021	CD	ARG	A	189	10.765	22.818	26.624	1.00	24.33
ATOM	1022	NE	ARG	A	189	11.419	21.914	25.681	1.00	25.35
ATOM	1023	CZ	ARG	A	189	11.336	20.586	25.724	1.00	27.35
ATOM	1024	NH1	ARG	A	189	10.620	19.991	26.673	1.00	24.73
ATOM	1025	NH2	ARG	A	189	11.959	19.849	24.807	1.00	25.42
ATOM	1026	N	PRO	A	190	8.325	25.890	29.725	1.00	23.27
ATOM	1027	CA	PRO	A	190	7.442	24.830	29.216	1.00	23.21
ATOM	1028	C	PRO	A	190	6.826	25.110	27.849	1.00	23.72
ATOM	1029	O	PRO	A	190	6.458	24.157	27.101	1.00	23.77
ATOM	1030	CB	PRO	A	190	6.377	24.713	30.305	1.00	22.63
ATOM	1031	CG	PRO	A	190	6.285	26.115	30.830	1.00	24.33
ATOM	1032	CD	PRO	A	190	7.745	26.527	30.921	1.00	22.73
ATOM	1033	N	ASP	A	191	6.681	26.383	27.508	1.00	25.20
ATOM	1034	CA	ASP	A	191	6.107	26.754	26.202	1.00	25.89
ATOM	1035	C	ASP	A	191	6.653	28.106	25.770	1.00	25.76
ATOM	1036	O	ASP	A	191	7.488	28.716	26.498	1.00	24.40
ATOM	1037	CB	ASP	A	191	4.569	26.757	26.269	1.00	28.36
ATOM	1038	CG	ASP	A	191	4.024	27.697	27.323	1.00	30.16
ATOM	1039	OD1	ASP	A	191	2.887	27.468	27.783	1.00	33.88
ATOM	1040	OD2	ASP	A	191	4.714	28.669	27.686	1.00	30.53
ATOM	1041	N	ASP	A	192	6.214	28.596	24.617	1.00	26.01
ATOM	1042	CA	ASP	A	192	6.724	29.877	24.088	1.00	26.22
ATOM	1043	C	ASP	A	192	6.236	31.123	24.813	1.00	26.52
ATOM	1044	O	ASP	A	192	6.567	32.275	24.395	1.00	26.27
ATOM	1045	CB	ASP	A	192	6.419	29.985	22.589	1.00	27.69
ATOM	1046	CG	ASP	A	192	4.940	30.161	22.296	1.00	29.61
ATOM	1047	OD1	ASP	A	192	4.102	29.647	23.066	1.00	31.87
ATOM	1048	OD2	ASP	A	192	4.618	30.805	21.279	1.00	30.31
ATOM	1049	N	SER	A	193	5.470	30.947	25.885	1.00	24.46
ATOM	1050	CA	SER	A	193	4.988	32.117	26.645	1.00	24.21

ATOM	1051	C	SER	A	193	6.078	32.565	27.614	1.00	22.68
ATOM	1052	O	SER	A	193	6.082	33.740	28.082	1.00	22.41
ATOM	1053	CB	SER	A	193	3.701	31.787	27.415	1.00	25.67
ATOM	1054	OG	SER	A	193	3.910	30.774	28.386	1.00	27.13
ATOM	1055	N	LEU	A	194	7.009	31.670	27.932	1.00	20.84
ATOM	1056	CA	LEU	A	194	8.107	32.044	28.852	1.00	18.87
ATOM	1057	C	LEU	A	194	9.149	32.830	28.065	1.00	18.82
ATOM	1058	O	LEU	A	194	10.066	32.240	27.419	1.00	19.19
ATOM	1059	CB	LEU	A	194	8.758	30.809	29.469	1.00	17.48
ATOM	1060	CG	LEU	A	194	9.680	31.201	30.631	1.00	19.18
ATOM	1061	CD1	LEU	A	194	8.825	31.633	31.825	1.00	16.80
ATOM	1062	CD2	LEU	A	194	10.585	30.044	31.014	1.00	16.32
ATOM	1063	N	GLU	A	195	9.025	34.150	28.095	1.00	18.44
ATOM	1064	CA	GLU	A	195	9.949	35.029	27.369	1.00	18.80
ATOM	1065	C	GLU	A	195	11.415	34.777	27.733	1.00	19.02
ATOM	1066	O	GLU	A	195	11.791	34.754	28.953	1.00	17.72
ATOM	1067	CB	GLU	A	195	9.575	36.485	27.644	1.00	20.83
ATOM	1068	CG	GLU	A	195	10.514	37.512	27.047	1.00	23.03
ATOM	1069	CD	GLU	A	195	9.989	38.926	27.204	1.00	24.10
ATOM	1070	OE1	GLU	A	195	9.211	39.373	26.337	1.00	25.77
ATOM	1071	OE2	GLU	A	195	10.343	39.585	28.203	1.00	24.06
ATOM	1072	N	PRO	A	196	12.272	34.559	26.714	1.00	18.43
ATOM	1073	CA	PRO	A	196	13.702	34.311	26.935	1.00	18.17
ATOM	1074	C	PRO	A	196	14.385	35.571	27.447	1.00	16.90
ATOM	1075	O	PRO	A	196	13.845	36.715	27.297	1.00	17.67
ATOM	1076	CB	PRO	A	196	14.210	33.914	25.546	1.00	17.79
ATOM	1077	CG	PRO	A	196	12.992	33.305	24.892	1.00	19.11
ATOM	1078	CD	PRO	A	196	11.911	34.287	25.310	1.00	18.58
ATOM	1079	N	PHE	A	197	15.558	35.405	28.039	1.00	15.80
ATOM	1080	CA	PHE	A	197	16.290	36.550	28.574	1.00	14.47
ATOM	1081	C	PHE	A	197	16.597	37.663	27.576	1.00	16.31
ATOM	1082	O	PHE	A	197	16.392	38.873	27.894	1.00	14.87
ATOM	1083	CB	PHE	A	197	17.595	36.093	29.217	1.00	12.99
ATOM	1084	CG	PHE	A	197	18.472	37.227	29.652	1.00	13.09
ATOM	1085	CD1	PHE	A	197	19.376	37.806	28.767	1.00	12.33
ATOM	1086	CD2	PHE	A	197	18.347	37.766	30.926	1.00	14.29
ATOM	1087	CE1	PHE	A	197	20.139	38.907	29.143	1.00	12.22
ATOM	1088	CE2	PHE	A	197	19.108	38.873	31.310	1.00	14.64
ATOM	1089	CZ	PHE	A	197	20.002	39.441	30.415	1.00	13.26
ATOM	1090	N	PHE	A	198	17.089	37.319	26.390	1.00	16.71
ATOM	1091	CA	PHE	A	198	17.427	38.384	25.431	1.00	17.60
ATOM	1092	C	PHE	A	198	16.212	39.192	25.001	1.00	17.52
ATOM	1093	O	PHE	A	198	16.317	40.434	24.774	1.00	16.03
ATOM	1094	CB	PHE	A	198	18.133	37.829	24.196	1.00	17.77
ATOM	1095	CG	PHE	A	198	19.051	38.826	23.549	1.00	17.92
ATOM	1096	CD1	PHE	A	198	20.310	39.075	24.087	1.00	18.66
ATOM	1097	CD2	PHE	A	198	18.633	39.569	22.455	1.00	16.90
ATOM	1098	CE1	PHE	A	198	21.139	40.053	23.546	1.00	18.55
ATOM	1099	CE2	PHE	A	198	19.454	40.551	21.904	1.00	17.96
ATOM	1100	CZ	PHE	A	198	20.708	40.795	22.451	1.00	18.52
ATOM	1101	N	ASP	A	199	15.066	38.530	24.879	1.00	17.52
ATOM	1102	CA	ASP	A	199	13.819	39.225	24.491	1.00	19.54
ATOM	1103	C	ASP	A	199	13.464	40.261	25.561	1.00	18.83
ATOM	1104	O	ASP	A	199	13.134	41.444	25.233	1.00	20.48
ATOM	1105	CB	ASP	A	199	12.685	38.210	24.338	1.00	21.95
ATOM	1106	CG	ASP	A	199	12.868	37.312	23.126	1.00	24.77
ATOM	1107	OD1	ASP	A	199	12.408	37.687	22.028	1.00	27.27
ATOM	1108	OD2	ASP	A	199	13.481	36.234	23.261	1.00	27.11
ATOM	1109	N	SER	A	200	13.530	39.858	26.829	1.00	17.89
ATOM	1110	CA	SER	A	200	13.223	40.784	27.947	1.00	16.17
ATOM	1111	C	SER	A	200	14.211	41.943	27.915	1.00	16.77
ATOM	1112	O	SER	A	200	13.823	43.140	28.072	1.00	17.20

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ATOM   1113  CB  SER A 200      13.336  40.062  29.292  1.00 14.55
ATOM   1114  OG  SER A 200      12.386  39.017  29.400  1.00 14.16
ATOM   1115  N   LEU A 201      15.481  41.617  27.711  1.00 16.47
ATOM   1116  CA  LEU A 201      16.553  42.638  27.654  1.00 18.93
ATOM   1117  C   LEU A 201      16.237  43.684  26.586  1.00 18.88
ATOM   1118  O   LEU A 201      16.274  44.917  26.852  1.00 18.26
ATOM   1119  CB  LEU A 201      17.884  41.953  27.337  1.00 18.68
ATOM   1120  CG  LEU A 201      19.244  42.637  27.523  1.00 20.59
ATOM   1121  CD1 LEU A 201      19.973  42.616  26.194  1.00 20.98
ATOM   1122  CD2 LEU A 201      19.100  44.053  28.045  1.00 20.13
ATOM   1123  N   VAL A 202      15.919  43.222  25.383  1.00 20.38
ATOM   1124  CA  VAL A 202      15.600  44.130  24.264  1.00 20.23
ATOM   1125  C   VAL A 202      14.335  44.938  24.532  1.00 23.13
ATOM   1126  O   VAL A 202      14.284  46.175  24.255  1.00 23.36
ATOM   1127  CB  VAL A 202      15.433  43.337  22.948  1.00 19.84
ATOM   1128  CG1 VAL A 202      14.830  44.228  21.855  1.00 17.60
ATOM   1129  CG2 VAL A 202      16.792  42.804  22.502  1.00 16.36
ATOM   1130  N   LYS A 203      13.315  44.285  25.074  1.00 24.15
ATOM   1131  CA  LYS A 203      12.050  44.985  25.360  1.00 27.77
ATOM   1132  C   LYS A 203      12.178  46.049  26.452  1.00 27.47
ATOM   1133  O   LYS A 203      11.753  47.223  26.252  1.00 26.63
ATOM   1134  CB  LYS A 203      10.970  43.973  25.746  1.00 29.55
ATOM   1135  CG  LYS A 203       9.609  44.594  26.008  1.00 34.08
ATOM   1136  CD  LYS A 203       8.497  43.798  25.335  1.00 36.82
ATOM   1137  CE  LYS A 203       8.504  42.342  25.774  1.00 38.97
ATOM   1138  NZ  LYS A 203       7.512  41.533  25.012  1.00 40.86
ATOM   1139  N   GLN A 204      12.771  45.687  27.585  1.00 26.46
ATOM   1140  CA  GLN A 204      12.910  46.632  28.721  1.00 26.94
ATOM   1141  C   GLN A 204      14.125  47.542  28.614  1.00 28.51
ATOM   1142  O   GLN A 204      14.479  48.264  29.600  1.00 30.36
ATOM   1143  CB  GLN A 204      13.007  45.848  30.032  1.00 24.17
ATOM   1144  CG  GLN A 204      11.980  44.739  30.170  1.00 20.78
ATOM   1145  CD  GLN A 204      12.270  43.821  31.342  1.00 20.14
ATOM   1146  OE1 GLN A 204      11.725  42.676  31.420  1.00 19.72
ATOM   1147  NE2 GLN A 204      13.107  44.279  32.265  1.00 16.56
ATOM   1148  N   THR A 205      14.762  47.568  27.453  1.00 28.58
ATOM   1149  CA  THR A 205      15.979  48.375  27.306  1.00 29.06
ATOM   1150  C   THR A 205      16.186  48.905  25.885  1.00 30.58
ATOM   1151  O   THR A 205      15.427  48.525  24.940  1.00 30.23
ATOM   1152  CB  THR A 205      17.175  47.501  27.772  1.00 29.85
ATOM   1153  OG1 THR A 205      17.572  47.899  29.088  1.00 29.62
ATOM   1154  CG2 THR A 205      18.328  47.576  26.823  1.00 29.03
ATOM   1155  N   HIS A 206      17.175  49.784  25.711  1.00 31.92
ATOM   1156  CA  HIS A 206      17.488  50.350  24.372  1.00 33.38
ATOM   1157  C   HIS A 206      18.548  49.530  23.637  1.00 32.31
ATOM   1158  O   HIS A 206      18.905  49.845  22.460  1.00 31.08
ATOM   1159  CB  HIS A 206      17.975  51.799  24.487  1.00 36.39
ATOM   1160  CG  HIS A 206      16.898  52.773  24.848  1.00 39.92
ATOM   1161  ND1 HIS A 206      15.696  52.836  24.177  1.00 40.95
ATOM   1162  CD2 HIS A 206      16.849  53.736  25.800  1.00 40.35
ATOM   1163  CE1 HIS A 206      14.951  53.794  24.699  1.00 41.58
ATOM   1164  NE2 HIS A 206      15.627  54.356  25.685  1.00 41.65
ATOM   1165  N   VAL A 207      19.075  48.501  24.291  1.00 29.55
ATOM   1166  CA  VAL A 207      20.097  47.639  23.651  1.00 28.49
ATOM   1167  C   VAL A 207      19.511  47.083  22.354  1.00 26.27
ATOM   1168  O   VAL A 207      18.415  46.441  22.358  1.00 26.26
ATOM   1169  CB  VAL A 207      20.498  46.462  24.572  1.00 28.77
ATOM   1170  CG1 VAL A 207      21.399  45.491  23.825  1.00 29.45
ATOM   1171  CG2 VAL A 207      21.219  46.987  25.805  1.00 28.52
ATOM   1172  N   PRO A 208      20.192  47.311  21.220  1.00 24.42
ATOM   1173  CA  PRO A 208      19.683  46.804  19.944  1.00 23.82
ATOM   1174  C   PRO A 208      19.547  45.284  19.914  1.00 22.81
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ATOM	1175	O	PRO	A	208	20.290	44.545	20.630	1.00	21.12
ATOM	1176	CB	PRO	A	208	20.689	47.343	18.926	1.00	24.65
ATOM	1177	CG	PRO	A	208	21.927	47.510	19.711	1.00	25.77
ATOM	1178	CD	PRO	A	208	21.441	48.062	21.025	1.00	24.39
ATOM	1179	N	ASN	A	209	18.605	44.806	19.109	1.00	21.59
ATOM	1180	CA	ASN	A	209	18.322	43.362	18.995	1.00	20.43
ATOM	1181	C	ASN	A	209	19.390	42.599	18.222	1.00	20.52
ATOM	1182	O	ASN	A	209	19.190	42.217	17.026	1.00	21.39
ATOM	1183	CB	ASN	A	209	16.957	43.159	18.340	1.00	18.52
ATOM	1184	CG	ASN	A	209	16.501	41.728	18.402	1.00	18.12
ATOM	1185	OD1	ASN	A	209	16.968	40.948	19.281	1.00	18.32
ATOM	1186	ND2	ASN	A	209	15.594	41.348	17.513	1.00	15.63
ATOM	1187	N	LEU	A	210	20.514	42.346	18.883	1.00	19.53
ATOM	1188	CA	LEU	A	210	21.631	41.634	18.243	1.00	19.83
ATOM	1189	C	LEU	A	210	22.765	41.421	19.226	1.00	19.02
ATOM	1190	O	LEU	A	210	22.958	42.238	20.176	1.00	18.52
ATOM	1191	CB	LEU	A	210	22.120	42.451	17.035	1.00	21.93
ATOM	1192	CG	LEU	A	210	23.534	42.305	16.456	1.00	22.75
ATOM	1193	CD1	LEU	A	210	23.612	43.009	15.102	1.00	23.20
ATOM	1194	CD2	LEU	A	210	24.548	42.910	17.409	1.00	24.60
ATOM	1195	N	PHE	A	211	23.509	40.334	19.044	1.00	16.48
ATOM	1196	CA	PHE	A	211	24.671	40.055	19.909	1.00	16.70
ATOM	1197	C	PHE	A	211	25.722	39.310	19.095	1.00	16.08
ATOM	1198	O	PHE	A	211	25.392	38.653	18.063	1.00	17.22
ATOM	1199	CB	PHE	A	211	24.251	39.280	21.173	1.00	14.67
ATOM	1200	CG	PHE	A	211	23.813	37.863	20.924	1.00	16.01
ATOM	1201	CD1	PHE	A	211	24.748	36.837	20.835	1.00	14.91
ATOM	1202	CD2	PHE	A	211	22.465	37.546	20.824	1.00	14.62
ATOM	1203	CE1	PHE	A	211	24.344	35.515	20.653	1.00	15.05
ATOM	1204	CE2	PHE	A	211	22.054	36.224	20.641	1.00	15.47
ATOM	1205	CZ	PHE	A	211	22.996	35.207	20.558	1.00	12.73
ATOM	1206	N	SER	A	212	26.977	39.424	19.520	1.00	17.19
ATOM	1207	CA	SER	A	212	28.126	38.803	18.818	1.00	16.98
ATOM	1208	C	SER	A	212	28.894	37.862	19.725	1.00	16.10
ATOM	1209	O	SER	A	212	29.036	38.122	20.955	1.00	14.22
ATOM	1210	CB	SER	A	212	29.094	39.888	18.349	1.00	16.89
ATOM	1211	OG	SER	A	212	28.431	40.869	17.593	1.00	26.70
ATOM	1212	N	LEU	A	213	29.430	36.797	19.144	1.00	14.76
ATOM	1213	CA	LEU	A	213	30.194	35.819	19.930	1.00	14.81
ATOM	1214	C	LEU	A	213	31.563	35.509	19.352	1.00	14.32
ATOM	1215	O	LEU	A	213	31.702	35.162	18.137	1.00	12.74
ATOM	1216	CB	LEU	A	213	29.394	34.522	20.060	1.00	15.67
ATOM	1217	CG	LEU	A	213	28.735	34.210	21.408	1.00	18.95
ATOM	1218	CD1	LEU	A	213	28.196	35.475	22.050	1.00	18.65
ATOM	1219	CD2	LEU	A	213	27.627	33.185	21.192	1.00	16.46
ATOM	1220	N	GLN	A	214	32.581	35.656	20.191	1.00	14.19
ATOM	1221	CA	GLN	A	214	33.954	35.324	19.797	1.00	15.89
ATOM	1222	C	GLN	A	214	34.407	34.258	20.778	1.00	15.04
ATOM	1223	O	GLN	A	214	34.848	34.582	21.917	1.00	16.01
ATOM	1224	CB	GLN	A	214	34.903	36.523	19.914	1.00	17.92
ATOM	1225	CG	GLN	A	214	36.290	36.231	19.341	1.00	20.63
ATOM	1226	CD	GLN	A	214	37.397	37.099	19.932	1.00	23.22
ATOM	1227	OE1	GLN	A	214	38.459	37.332	19.273	1.00	24.79
ATOM	1228	NE2	GLN	A	214	37.199	37.571	21.156	1.00	24.53
ATOM	1229	N	LEU	A	215	34.284	32.997	20.390	1.00	14.37
ATOM	1230	CA	LEU	A	215	34.729	31.890	21.262	1.00	13.74
ATOM	1231	C	LEU	A	215	36.193	31.625	20.925	1.00	14.40
ATOM	1232	O	LEU	A	215	36.541	31.357	19.737	1.00	14.39
ATOM	1233	CB	LEU	A	215	33.872	30.644	21.005	1.00	13.94
ATOM	1234	CG	LEU	A	215	32.636	30.429	21.893	1.00	14.78
ATOM	1235	CD1	LEU	A	215	31.900	31.734	22.143	1.00	13.31
ATOM	1236	CD2	LEU	A	215	31.723	29.407	21.240	1.00	12.97

ATOM	1237	N	CYS	A	216	37.066	31.706	21.922	1.00	14.83
ATOM	1238	CA	CYS	A	216	38.504	31.486	21.682	1.00	16.37
ATOM	1239	C	CYS	A	216	39.066	30.196	22.263	1.00	17.20
ATOM	1240	O	CYS	A	216	39.174	30.046	23.519	1.00	16.79
ATOM	1241	CB	CYS	A	216	39.314	32.668	22.227	1.00	19.03
ATOM	1242	SG	CYS	A	216	38.852	34.278	21.505	1.00	23.75
ATOM	1243	N	GLY	A	217	39.415	29.257	21.387	1.00	15.43
ATOM	1244	CA	GLY	A	217	40.018	28.021	21.843	1.00	16.40
ATOM	1245	C	GLY	A	217	41.483	28.371	22.064	1.00	17.87
ATOM	1246	O	GLY	A	217	42.057	29.204	21.303	1.00	17.53
ATOM	1247	N	ALA	A	218	42.119	27.785	23.069	1.00	17.79
ATOM	1248	CA	ALA	A	218	43.539	28.108	23.349	1.00	16.33
ATOM	1249	C	ALA	A	218	44.486	27.408	22.379	1.00	17.71
ATOM	1250	O	ALA	A	218	45.602	27.927	22.069	1.00	16.46
ATOM	1251	CB	ALA	A	218	43.884	27.731	24.779	1.00	14.95
ATOM	1252	N	GLY	A	219	44.073	26.245	21.890	1.00	16.19
ATOM	1253	CA	GLY	A	219	44.909	25.505	20.970	1.00	17.57
ATOM	1254	C	GLY	A	219	45.696	24.439	21.703	1.00	17.52
ATOM	1255	O	GLY	A	219	46.490	23.675	21.076	1.00	16.29
ATOM	1256	N	PHE	A	220	45.502	24.375	23.018	1.00	17.13
ATOM	1257	CA	PHE	A	220	46.190	23.381	23.873	1.00	18.29
ATOM	1258	C	PHE	A	220	45.381	23.185	25.153	1.00	19.24
ATOM	1259	O	PHE	A	220	44.477	24.012	25.475	1.00	19.69
ATOM	1260	CB	PHE	A	220	47.616	23.854	24.187	1.00	18.72
ATOM	1261	CG	PHE	A	220	47.689	25.253	24.731	1.00	20.07
ATOM	1262	CD1	PHE	A	220	47.448	25.507	26.077	1.00	20.91
ATOM	1263	CD2	PHE	A	220	47.984	26.320	23.890	1.00	19.91
ATOM	1264	CE1	PHE	A	220	47.505	26.809	26.576	1.00	21.79
ATOM	1265	CE2	PHE	A	220	48.043	27.620	24.374	1.00	20.35
ATOM	1266	CZ	PHE	A	220	47.802	27.866	25.721	1.00	21.77
ATOM	1267	N	PRO	A	221	45.659	22.110	25.907	1.00	20.17
ATOM	1268	CA	PRO	A	221	44.922	21.846	27.147	1.00	21.27
ATOM	1269	C	PRO	A	221	45.014	22.959	28.180	1.00	23.04
ATOM	1270	O	PRO	A	221	46.065	23.666	28.292	1.00	23.99
ATOM	1271	CB	PRO	A	221	45.545	20.543	27.648	1.00	20.22
ATOM	1272	CG	PRO	A	221	45.946	19.855	26.390	1.00	20.63
ATOM	1273	CD	PRO	A	221	46.571	20.994	25.602	1.00	20.45
ATOM	1274	N	LEU	A	222	43.934	23.132	28.933	1.00	25.72
ATOM	1275	CA	LEU	A	222	43.873	24.158	29.991	1.00	28.32
ATOM	1276	C	LEU	A	222	43.425	23.516	31.291	1.00	30.88
ATOM	1277	O	LEU	A	222	42.248	23.042	31.403	1.00	31.71
ATOM	1278	CB	LEU	A	222	42.880	25.261	29.620	1.00	27.52
ATOM	1279	CG	LEU	A	222	43.264	26.233	28.506	1.00	27.30
ATOM	1280	CD1	LEU	A	222	42.040	27.042	28.096	1.00	26.79
ATOM	1281	CD2	LEU	A	222	44.382	27.143	28.983	1.00	27.13
ATOM	1282	N	ASN	A	223	44.320	23.470	32.273	1.00	34.15
ATOM	1283	CA	ASN	A	223	43.959	22.893	33.583	1.00	37.64
ATOM	1284	C	ASN	A	223	43.014	23.882	34.254	1.00	38.54
ATOM	1285	O	ASN	A	223	42.864	25.056	33.785	1.00	36.72
ATOM	1286	CB	ASN	A	223	45.204	22.663	34.457	1.00	38.54
ATOM	1287	CG	ASN	A	223	45.905	23.952	34.839	1.00	39.09
ATOM	1288	OD1	ASN	A	223	45.268	24.903	35.375	1.00	41.39
ATOM	1289	ND2	ASN	A	223	47.208	24.013	34.595	1.00	40.09
ATOM	1290	N	GLN	A	224	42.380	23.444	35.335	1.00	41.79
ATOM	1291	CA	GLN	A	224	41.415	24.278	36.073	1.00	43.58
ATOM	1292	C	GLN	A	224	41.898	25.708	36.359	1.00	42.52
ATOM	1293	O	GLN	A	224	41.138	26.705	36.126	1.00	42.75
ATOM	1294	CB	GLN	A	224	41.021	23.572	37.378	1.00	46.22
ATOM	1295	CG	GLN	A	224	39.629	23.956	37.827	1.00	49.86
ATOM	1296	CD	GLN	A	224	39.085	23.160	38.990	1.00	51.40
ATOM	1297	OE1	GLN	A	224	37.923	23.406	39.443	1.00	52.42
ATOM	1298	NE2	GLN	A	224	39.866	22.215	39.496	1.00	52.75

ATOM	1299	N	SER	A	225	43.133	25.852	36.831	1.00	40.27
ATOM	1300	CA	SER	A	225	43.669	27.200	37.138	1.00	39.30
ATOM	1301	C	SER	A	225	43.989	28.028	35.893	1.00	36.57
ATOM	1302	O	SER	A	225	43.920	29.292	35.930	1.00	36.27
ATOM	1303	CB	SER	A	225	44.917	27.094	38.027	1.00	40.27
ATOM	1304	OG	SER	A	225	45.974	26.411	37.376	1.00	42.21
ATOM	1305	N	GLU	A	226	44.339	27.364	34.796	1.00	34.29
ATOM	1306	CA	GLU	A	226	44.654	28.083	33.542	1.00	32.79
ATOM	1307	C	GLU	A	226	43.375	28.651	32.954	1.00	31.17
ATOM	1308	O	GLU	A	226	43.354	29.815	32.454	1.00	29.09
ATOM	1309	CB	GLU	A	226	45.307	27.144	32.526	1.00	33.69
ATOM	1310	CG	GLU	A	226	46.708	26.696	32.902	1.00	36.40
ATOM	1311	CD	GLU	A	226	47.251	25.619	31.972	1.00	37.70
ATOM	1312	OE1	GLU	A	226	46.585	24.567	31.830	1.00	37.54
ATOM	1313	OE2	GLU	A	226	48.340	25.823	31.389	1.00	37.14
ATOM	1314	N	VAL	A	227	42.305	27.867	33.007	1.00	29.89
ATOM	1315	CA	VAL	A	227	41.013	28.312	32.458	1.00	30.15
ATOM	1316	C	VAL	A	227	40.512	29.547	33.203	1.00	29.84
ATOM	1317	O	VAL	A	227	39.922	30.484	32.582	1.00	30.30
ATOM	1318	CB	VAL	A	227	39.940	27.210	32.558	1.00	30.93
ATOM	1319	CG1	VAL	A	227	38.800	27.538	31.637	1.00	32.67
ATOM	1320	CG2	VAL	A	227	40.516	25.867	32.183	1.00	32.31
ATOM	1321	N	LEU	A	228	40.731	29.581	34.513	1.00	28.88
ATOM	1322	CA	LEU	A	228	40.292	30.726	35.336	1.00	27.31
ATOM	1323	C	LEU	A	228	41.059	31.992	34.975	1.00	27.59
ATOM	1324	O	LEU	A	228	40.491	33.129	35.020	1.00	27.84
ATOM	1325	CB	LEU	A	228	40.496	30.420	36.819	1.00	27.50
ATOM	1326	CG	LEU	A	228	39.700	29.259	37.419	1.00	29.32
ATOM	1327	CD1	LEU	A	228	40.129	29.053	38.867	1.00	28.16
ATOM	1328	CD2	LEU	A	228	38.205	29.549	37.339	1.00	28.58
ATOM	1329	N	ALA	A	229	42.327	31.835	34.610	1.00	27.12
ATOM	1330	CA	ALA	A	229	43.176	32.998	34.257	1.00	27.64
ATOM	1331	C	ALA	A	229	43.134	33.347	32.776	1.00	27.65
ATOM	1332	O	ALA	A	229	43.460	34.504	32.375	1.00	29.94
ATOM	1333	CB	ALA	A	229	44.617	32.736	34.682	1.00	27.52
ATOM	1334	N	SER	A	230	42.736	32.393	31.947	1.00	26.68
ATOM	1335	CA	SER	A	230	42.692	32.635	30.498	1.00	26.33
ATOM	1336	C	SER	A	230	41.438	33.360	30.032	1.00	26.22
ATOM	1337	O	SER	A	230	40.356	33.302	30.695	1.00	25.70
ATOM	1338	CB	SER	A	230	42.815	31.310	29.746	1.00	26.07
ATOM	1339	OG	SER	A	230	42.759	31.519	28.344	1.00	26.54
ATOM	1340	N	VAL	A	231	41.562	34.056	28.909	1.00	25.03
ATOM	1341	CA	VAL	A	231	40.415	34.764	28.320	1.00	24.89
ATOM	1342	C	VAL	A	231	39.785	33.776	27.346	1.00	24.75
ATOM	1343	O	VAL	A	231	40.453	33.310	26.371	1.00	25.97
ATOM	1344	CB	VAL	A	231	40.859	36.043	27.568	1.00	24.38
ATOM	1345	CG1	VAL	A	231	39.729	36.554	26.678	1.00	22.98
ATOM	1346	CG2	VAL	A	231	41.244	37.119	28.577	1.00	23.20
ATOM	1347	N	GLY	A	232	38.526	33.433	27.588	1.00	23.26
ATOM	1348	CA	GLY	A	232	37.846	32.481	26.729	1.00	22.77
ATOM	1349	C	GLY	A	232	37.125	33.081	25.538	1.00	21.57
ATOM	1350	O	GLY	A	232	36.590	32.324	24.666	1.00	20.69
ATOM	1351	N	GLY	A	233	37.078	34.408	25.468	1.00	19.21
ATOM	1352	CA	GLY	A	233	36.410	35.050	24.353	1.00	17.96
ATOM	1353	C	GLY	A	233	35.599	36.275	24.731	1.00	18.25
ATOM	1354	O	GLY	A	233	35.778	36.866	25.851	1.00	15.19
ATOM	1355	N	SER	A	234	34.708	36.677	23.828	1.00	16.58
ATOM	1356	CA	SER	A	234	33.864	37.864	24.053	1.00	16.83
ATOM	1357	C	SER	A	234	32.423	37.667	23.599	1.00	17.82
ATOM	1358	O	SER	A	234	32.134	36.995	22.552	1.00	17.90
ATOM	1359	CB	SER	A	234	34.426	39.072	23.291	1.00	16.36
ATOM	1360	OG	SER	A	234	35.816	39.253	23.508	1.00	18.23

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ATOM   1361  N   MET A 235      31.506  38.227  24.372  1.00 18.00
ATOM   1362  CA  MET A 235      30.091  38.201  24.010  1.00 17.58
ATOM   1363  C   MET A 235      29.732  39.677  23.996  1.00 18.27
ATOM   1364  O   MET A 235      29.594  40.322  25.087  1.00 19.03
ATOM   1365  CB  MET A 235      29.232  37.475  25.046  1.00 16.91
ATOM   1366  CG  MET A 235      27.759  37.455  24.634  1.00 17.60
ATOM   1367  SD  MET A 235      26.597  36.751  25.819  1.00 20.56
ATOM   1368  CE  MET A 235      25.105  36.803  24.857  1.00 21.69
ATOM   1369  N   ILE A 236      29.629  40.248  22.801  1.00 19.70
ATOM   1370  CA  ILE A 236      29.271  41.669  22.674  1.00 19.40
ATOM   1371  C   ILE A 236      27.764  41.758  22.522  1.00 20.06
ATOM   1372  O   ILE A 236      27.175  41.365  21.467  1.00 16.87
ATOM   1373  CB  ILE A 236      29.985  42.341  21.470  1.00 21.41
ATOM   1374  CG1 ILE A 236      31.452  42.625  21.821  1.00 22.57
ATOM   1375  CG2 ILE A 236      29.329  43.672  21.149  1.00 21.72
ATOM   1376  CD1 ILE A 236      32.243  41.426  22.228  1.00 25.65
ATOM   1377  N   ILE A 237      27.122  42.246  23.575  1.00 20.16
ATOM   1378  CA  ILE A 237      25.663  42.382  23.599  1.00 21.01
ATOM   1379  C   ILE A 237      25.215  43.710  22.996  1.00 22.16
ATOM   1380  O   ILE A 237      25.620  44.812  23.472  1.00 22.96
ATOM   1381  CB  ILE A 237      25.153  42.241  25.050  1.00 21.36
ATOM   1382  CG1 ILE A 237      25.346  40.791  25.498  1.00 22.29
ATOM   1383  CG2 ILE A 237      23.694  42.660  25.156  1.00 20.45
ATOM   1384  CD1 ILE A 237      25.002  40.529  26.939  1.00 24.84
ATOM   1385  N   GLY A 238      24.404  43.626  21.946  1.00 23.30
ATOM   1386  CA  GLY A 238      23.903  44.820  21.288  1.00 25.11
ATOM   1387  C   GLY A 238      24.821  45.437  20.244  1.00 26.35
ATOM   1388  O   GLY A 238      24.644  46.640  19.874  1.00 27.08
ATOM   1389  N   GLY A 239      25.792  44.681  19.743  1.00 25.50
ATOM   1390  CA  GLY A 239      26.679  45.251  18.747  1.00 24.81
ATOM   1391  C   GLY A 239      27.807  44.371  18.242  1.00 26.38
ATOM   1392  O   GLY A 239      27.942  43.167  18.632  1.00 23.61
ATOM   1393  N   ILE A 240      28.632  44.960  17.383  1.00 26.33
ATOM   1394  CA  ILE A 240      29.780  44.273  16.758  1.00 25.87
ATOM   1395  C   ILE A 240      31.067  45.033  17.055  1.00 26.95
ATOM   1396  O   ILE A 240      31.121  46.287  16.882  1.00 28.86
ATOM   1397  CB  ILE A 240      29.607  44.226  15.226  1.00 25.88
ATOM   1398  CG1 ILE A 240      28.298  43.519  14.871  1.00 25.12
ATOM   1399  CG2 ILE A 240      30.806  43.541  14.581  1.00 26.56
ATOM   1400  CD1 ILE A 240      27.939  43.599  13.396  1.00 24.59
ATOM   1401  N   ASP A 241      32.100  44.323  17.498  1.00 25.24
ATOM   1402  CA  ASP A 241      33.395  44.973  17.781  1.00 25.13
ATOM   1403  C   ASP A 241      34.383  44.548  16.698  1.00 26.31
ATOM   1404  O   ASP A 241      34.676  43.326  16.536  1.00 26.89
ATOM   1405  CB  ASP A 241      33.922  44.561  19.153  1.00 24.85
ATOM   1406  CG  ASP A 241      35.171  45.325  19.541  1.00 24.81
ATOM   1407  OD1 ASP A 241      35.144  46.032  20.567  1.00 27.86
ATOM   1408  OD2 ASP A 241      36.180  45.226  18.817  1.00 25.69
ATOM   1409  N   HIS A 242      34.913  45.517  15.960  1.00 26.86
ATOM   1410  CA  HIS A 242      35.853  45.222  14.852  1.00 27.45
ATOM   1411  C   HIS A 242      37.197  44.613  15.221  1.00 25.41
ATOM   1412  O   HIS A 242      37.871  43.998  14.347  1.00 23.94
ATOM   1413  CB  HIS A 242      36.085  46.481  14.013  1.00 32.38
ATOM   1414  CG  HIS A 242      34.858  46.957  13.304  1.00 37.46
ATOM   1415  ND1 HIS A 242      33.822  47.591  13.956  1.00 39.65
ATOM   1416  CD2 HIS A 242      34.472  46.837  12.011  1.00 39.29
ATOM   1417  CE1 HIS A 242      32.850  47.840  13.096  1.00 40.56
ATOM   1418  NE2 HIS A 242      33.219  47.392  11.909  1.00 40.36
ATOM   1419  N   SER A 243      37.615  44.751  16.471  1.00 22.23
ATOM   1420  CA  SER A 243      38.915  44.184  16.877  1.00 22.06
ATOM   1421  C   SER A 243      38.843  42.667  17.011  1.00 20.51
ATOM   1422  O   SER A 243      39.897  41.986  17.130  1.00 23.23
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ATOM   1423  CB  SER A 243      39.368  44.785  18.211  1.00 22.47
ATOM   1424  OG  SER A 243      38.515  44.386  19.274  1.00 23.32
ATOM   1425  N   LEU A 244      37.635  42.115  16.979  1.00 20.52
ATOM   1426  CA  LEU A 244      37.454  40.649  17.145  1.00 18.32
ATOM   1427  C   LEU A 244      37.535  39.844  15.860  1.00 18.66
ATOM   1428  O   LEU A 244      37.482  38.576  15.892  1.00 18.25
ATOM   1429  CB  LEU A 244      36.120  40.368  17.843  1.00 18.01
ATOM   1430  CG  LEU A 244      35.998  41.054  19.206  1.00 17.93
ATOM   1431  CD1 LEU A 244      34.689  40.666  19.885  1.00 17.04
ATOM   1432  CD2 LEU A 244      37.189  40.661  20.063  1.00 19.23
ATOM   1433  N   TYR A 245      37.666  40.522  14.729  1.00 18.73
ATOM   1434  CA  TYR A 245      37.756  39.795  13.459  1.00 19.72
ATOM   1435  C   TYR A 245      38.536  40.545  12.398  1.00 20.55
ATOM   1436  O   TYR A 245      38.819  41.771  12.542  1.00 21.10
ATOM   1437  CB  TYR A 245      36.357  39.494  12.924  1.00 19.56
ATOM   1438  CG  TYR A 245      35.606  40.708  12.421  1.00 20.40
ATOM   1439  CD1 TYR A 245      34.977  41.586  13.302  1.00 20.11
ATOM   1440  CD2 TYR A 245      35.512  40.966  11.055  1.00 20.70
ATOM   1441  CE1 TYR A 245      34.265  42.689  12.834  1.00 21.90
ATOM   1442  CE2 TYR A 245      34.809  42.060  10.573  1.00 22.10
ATOM   1443  CZ  TYR A 245      34.184  42.919  11.466  1.00 23.05
ATOM   1444  OH  TYR A 245      33.476  43.993  10.979  1.00 22.53
ATOM   1445  N   THR A 246      38.902  39.829  11.340  1.00 20.48
ATOM   1446  CA  THR A 246      39.621  40.429  10.195  1.00 19.46
ATOM   1447  C   THR A 246      38.811  40.054   8.964  1.00 19.29
ATOM   1448  O   THR A 246      37.999  39.085   9.000  1.00 16.84
ATOM   1449  CB  THR A 246      41.049  39.865  10.031  1.00 19.69
ATOM   1450  OG1 THR A 246      40.997  38.434   9.953  1.00 20.05
ATOM   1451  CG2 THR A 246      41.929  40.294  11.194  1.00 19.01
ATOM   1452  N   GLY A 247      38.996  40.793   7.879  1.00 19.48
ATOM   1453  CA  GLY A 247      38.259  40.490   6.668  1.00 19.61
ATOM   1454  C   GLY A 247      36.812  40.927   6.747  1.00 20.26
ATOM   1455  O   GLY A 247      36.412  41.712   7.660  1.00 21.64
ATOM   1456  N   SER A 248      36.006  40.437   5.816  1.00 21.23
ATOM   1457  CA  SER A 248      34.580  40.806   5.765  1.00 23.54
ATOM   1458  C   SER A 248      33.649  39.836   6.484  1.00 23.00
ATOM   1459  O   SER A 248      33.978  38.625   6.684  1.00 21.96
ATOM   1460  CB  SER A 248      34.135  40.936   4.304  1.00 24.06
ATOM   1461  OG  SER A 248      34.814  41.999   3.656  1.00 28.27
ATOM   1462  N   LEU A 249      32.494  40.355   6.881  1.00 23.33
ATOM   1463  CA  LEU A 249      31.453  39.551   7.550  1.00 23.71
ATOM   1464  C   LEU A 249      30.478  39.103   6.468  1.00 23.26
ATOM   1465  O   LEU A 249      29.913  39.958   5.721  1.00 24.66
ATOM   1466  CB  LEU A 249      30.687  40.392   8.576  1.00 22.83
ATOM   1467  CG  LEU A 249      31.234  40.585   9.992  1.00 23.68
ATOM   1468  CD1 LEU A 249      30.483  41.728  10.659  1.00 23.07
ATOM   1469  CD2 LEU A 249      31.077  39.299  10.802  1.00 22.16
ATOM   1470  N   TRP A 250      30.285  37.797   6.335  1.00 21.28
ATOM   1471  CA  TRP A 250      29.328  37.282   5.348  1.00 18.03
ATOM   1472  C   TRP A 250      28.115  36.810   6.115  1.00 18.51
ATOM   1473  O   TRP A 250      28.242  36.079   7.153  1.00 18.65
ATOM   1474  CB  TRP A 250      29.925  36.128   4.550  1.00 19.15
ATOM   1475  CG  TRP A 250      30.759  36.597   3.411  1.00 19.10
ATOM   1476  CD1 TRP A 250      32.061  36.998   3.456  1.00 18.51
ATOM   1477  CD2 TRP A 250      30.328  36.777   2.058  1.00 18.74
ATOM   1478  NE1 TRP A 250      32.470  37.418   2.214  1.00 18.41
ATOM   1479  CE2 TRP A 250      31.425  37.294   1.336  1.00 18.71
ATOM   1480  CE3 TRP A 250      29.118  36.554   1.386  1.00 19.61
ATOM   1481  CZ2 TRP A 250      31.352  37.594  -0.029  1.00 18.57
ATOM   1482  CZ3 TRP A 250      29.043  36.853   0.026  1.00 20.92
ATOM   1483  CH2 TRP A 250      30.158  37.369  -0.666  1.00 17.98
ATOM   1484  N   TYR A 251      26.939  37.203   5.644  1.00 17.22
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ATOM	1485	CA	TYR	A	251	25.699	36.825	6.328	1.00	16.85
ATOM	1486	C	TYR	A	251	24.875	35.751	5.642	1.00	16.82
ATOM	1487	O	TYR	A	251	24.668	35.782	4.397	1.00	17.05
ATOM	1488	CB	TYR	A	251	24.814	38.059	6.536	1.00	17.46
ATOM	1489	CG	TYR	A	251	25.389	39.070	7.493	1.00	17.27
ATOM	1490	CD1	TYR	A	251	26.265	40.065	7.055	1.00	18.34
ATOM	1491	CD2	TYR	A	251	25.076	39.018	8.852	1.00	16.39
ATOM	1492	CE1	TYR	A	251	26.819	40.984	7.955	1.00	18.20
ATOM	1493	CE2	TYR	A	251	25.622	39.925	9.753	1.00	17.81
ATOM	1494	CZ	TYR	A	251	26.487	40.900	9.302	1.00	17.43
ATOM	1495	OH	TYR	A	251	27.014	41.779	10.215	1.00	20.25
ATOM	1496	N	THR	A	252	24.395	34.803	6.436	1.00	15.07
ATOM	1497	CA	THR	A	252	23.525	33.725	5.933	1.00	14.48
ATOM	1498	C	THR	A	252	22.204	33.996	6.646	1.00	16.15
ATOM	1499	O	THR	A	252	22.193	34.429	7.845	1.00	16.66
ATOM	1500	CB	THR	A	252	24.056	32.325	6.330	1.00	14.69
ATOM	1501	OG1	THR	A	252	23.273	31.316	5.684	1.00	13.97
ATOM	1502	CG2	THR	A	252	23.974	32.118	7.839	1.00	14.05
ATOM	1503	N	PRO	A	253	21.070	33.774	5.972	1.00	15.93
ATOM	1504	CA	PRO	A	253	19.826	34.054	6.694	1.00	17.09
ATOM	1505	C	PRO	A	253	19.418	33.029	7.741	1.00	18.67
ATOM	1506	O	PRO	A	253	19.782	31.813	7.653	1.00	17.11
ATOM	1507	CB	PRO	A	253	18.789	34.161	5.572	1.00	17.20
ATOM	1508	CG	PRO	A	253	19.304	33.207	4.545	1.00	17.18
ATOM	1509	CD	PRO	A	253	20.809	33.468	4.553	1.00	17.14
ATOM	1510	N	ILE	A	254	18.692	33.501	8.750	1.00	18.82
ATOM	1511	CA	ILE	A	254	18.165	32.604	9.792	1.00	20.14
ATOM	1512	C	ILE	A	254	16.885	32.091	9.137	1.00	21.33
ATOM	1513	O	ILE	A	254	15.911	32.875	8.914	1.00	21.52
ATOM	1514	CB	ILE	A	254	17.827	33.368	11.091	1.00	20.62
ATOM	1515	CG1	ILE	A	254	19.124	33.752	11.806	1.00	20.82
ATOM	1516	CG2	ILE	A	254	16.935	32.509	11.994	1.00	19.41
ATOM	1517	CD1	ILE	A	254	18.920	34.458	13.127	1.00	22.19
ATOM	1518	N	ARG	A	255	16.868	30.810	8.795	1.00	22.06
ATOM	1519	CA	ARG	A	255	15.702	30.211	8.115	1.00	23.47
ATOM	1520	C	ARG	A	255	14.398	30.343	8.880	1.00	24.68
ATOM	1521	O	ARG	A	255	13.334	30.719	8.299	1.00	25.49
ATOM	1522	CB	ARG	A	255	15.951	28.735	7.852	1.00	22.62
ATOM	1523	CG	ARG	A	255	14.843	28.093	7.053	1.00	22.10
ATOM	1524	CD	ARG	A	255	14.985	26.598	7.069	1.00	22.76
ATOM	1525	NE	ARG	A	255	14.031	25.958	6.176	1.00	22.51
ATOM	1526	CZ	ARG	A	255	13.692	24.679	6.256	1.00	22.37
ATOM	1527	NH1	ARG	A	255	14.232	23.914	7.195	1.00	20.91
ATOM	1528	NH2	ARG	A	255	12.819	24.166	5.396	1.00	23.78
ATOM	1529	N	ARG	A	256	14.451	30.023	10.165	1.00	24.98
ATOM	1530	CA	ARG	A	256	13.264	30.085	11.029	1.00	25.56
ATOM	1531	C	ARG	A	256	13.723	30.441	12.438	1.00	24.84
ATOM	1532	O	ARG	A	256	14.829	30.013	12.893	1.00	22.14
ATOM	1533	CB	ARG	A	256	12.561	28.729	11.009	1.00	27.37
ATOM	1534	CG	ARG	A	256	11.350	28.599	11.914	1.00	29.24
ATOM	1535	CD	ARG	A	256	10.878	27.150	11.899	1.00	29.60
ATOM	1536	NE	ARG	A	256	10.180	26.788	13.126	1.00	31.29
ATOM	1537	CZ	ARG	A	256	10.043	25.543	13.563	1.00	31.25
ATOM	1538	NH1	ARG	A	256	10.559	24.535	12.870	1.00	31.19
ATOM	1539	NH2	ARG	A	256	9.398	25.307	14.698	1.00	32.97
ATOM	1540	N	GLU	A	257	12.914	31.219	13.141	1.00	24.01
ATOM	1541	CA	GLU	A	257	13.270	31.650	14.500	1.00	23.46
ATOM	1542	C	GLU	A	257	12.829	30.739	15.636	1.00	23.02
ATOM	1543	O	GLU	A	257	11.749	30.947	16.264	1.00	26.15
ATOM	1544	CB	GLU	A	257	12.739	33.055	14.748	1.00	23.25
ATOM	1545	CG	GLU	A	257	13.439	34.123	13.930	1.00	26.24
ATOM	1546	CD	GLU	A	257	12.572	35.353	13.746	1.00	27.27

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ATOM   1547  OE1 GLU A 257      13.124  36.470  13.673  1.00 27.35
ATOM   1548  OE2 GLU A 257      11.334  35.197  13.665  1.00 30.46
ATOM   1549  N   TRP A 258      13.632  29.719  15.898  1.00 19.64
ATOM   1550  CA  TRP A 258      13.390  28.798  17.016  1.00 19.75
ATOM   1551  C   TRP A 258      14.812  28.548  17.495  1.00 19.46
ATOM   1552  O   TRP A 258      15.267  29.190  18.500  1.00 20.47
ATOM   1553  CB  TRP A 258      12.632  27.537  16.561  1.00 18.27
ATOM   1554  CG  TRP A 258      13.203  26.710  15.455  1.00 17.96
ATOM   1555  CD1 TRP A 258      13.898  27.143  14.364  1.00 18.43
ATOM   1556  CD2 TRP A 258      13.051  25.293  15.298  1.00 17.87
ATOM   1557  NE1 TRP A 258      14.187  26.082  13.537  1.00 18.62
ATOM   1558  CE2 TRP A 258      13.678  24.935  14.088  1.00 17.86
ATOM   1559  CE3 TRP A 258      12.441  24.291  16.067  1.00 17.50
ATOM   1560  CZ2 TRP A 258      13.717  23.614  13.624  1.00 19.19
ATOM   1561  CZ3 TRP A 258      12.477  22.976  15.608  1.00 19.16
ATOM   1562  CH2 TRP A 258      13.113  22.650  14.396  1.00 18.86
ATOM   1563  N   TYR A 259      15.538  27.670  16.814  1.00 18.33
ATOM   1564  CA  TYR A 259      16.965  27.458  17.126  1.00 15.42
ATOM   1565  C   TYR A 259      17.550  28.474  16.157  1.00 16.46
ATOM   1566  O   TYR A 259      16.789  29.066  15.323  1.00 15.71
ATOM   1567  CB  TYR A 259      17.439  26.078  16.671  1.00 13.86
ATOM   1568  CG  TYR A 259      17.056  24.927  17.564  1.00 13.98
ATOM   1569  CD1 TYR A 259      17.876  24.539  18.627  1.00 13.32
ATOM   1570  CD2 TYR A 259      15.875  24.224  17.346  1.00 12.14
ATOM   1571  CE1 TYR A 259      17.520  23.467  19.450  1.00 15.06
ATOM   1572  CE2 TYR A 259      15.510  23.167  18.155  1.00 14.24
ATOM   1573  CZ  TYR A 259      16.329  22.789  19.200  1.00 14.26
ATOM   1574  OH  TYR A 259      15.940  21.719  19.955  1.00 12.92
ATOM   1575  N   TYR A 260      18.851  28.725  16.224  1.00 14.50
ATOM   1576  CA  TYR A 260      19.440  29.630  15.232  1.00 15.21
ATOM   1577  C   TYR A 260      19.716  28.718  14.037  1.00 15.90
ATOM   1578  O   TYR A 260      20.866  28.210  13.836  1.00 16.76
ATOM   1579  CB  TYR A 260      20.722  30.269  15.759  1.00 13.84
ATOM   1580  CG  TYR A 260      20.426  31.416  16.690  1.00 14.32
ATOM   1581  CD1 TYR A 260      20.534  31.270  18.078  1.00 13.41
ATOM   1582  CD2 TYR A 260      19.996  32.642  16.187  1.00 13.45
ATOM   1583  CE1 TYR A 260      20.224  32.320  18.933  1.00 13.15
ATOM   1584  CE2 TYR A 260      19.680  33.699  17.037  1.00 12.56
ATOM   1585  CZ  TYR A 260      19.801  33.530  18.404  1.00 13.22
ATOM   1586  OH  TYR A 260      19.531  34.582  19.239  1.00 12.88
ATOM   1587  N   GLU A 261      18.664  28.476  13.260  1.00 15.81
ATOM   1588  CA  GLU A 261      18.741  27.586  12.081  1.00 17.54
ATOM   1589  C   GLU A 261      19.191  28.266  10.791  1.00 17.31
ATOM   1590  O   GLU A 261      18.665  29.355  10.402  1.00 16.63
ATOM   1591  CB  GLU A 261      17.382  26.914  11.842  1.00 16.53
ATOM   1592  CG  GLU A 261      17.326  26.076  10.573  1.00 19.47
ATOM   1593  CD  GLU A 261      15.965  25.454  10.326  1.00 20.18
ATOM   1594  OE1 GLU A 261      14.956  26.037  10.766  1.00 21.27
ATOM   1595  OE2 GLU A 261      15.902  24.390   9.673  1.00 20.94
ATOM   1596  N   VAL A 262      20.153  27.640  10.122  1.00 16.45
ATOM   1597  CA  VAL A 262      20.679  28.147   8.842  1.00 16.13
ATOM   1598  C   VAL A 262      20.620  27.006   7.831  1.00 17.33
ATOM   1599  O   VAL A 262      20.168  25.863   8.166  1.00 17.30
ATOM   1600  CB  VAL A 262      22.131  28.624   8.982  1.00 14.58
ATOM   1601  CG1 VAL A 262      22.218  29.690  10.064  1.00 14.84
ATOM   1602  CG2 VAL A 262      23.039  27.449   9.308  1.00 14.53
ATOM   1603  N   ILE A 263      21.064  27.271   6.608  1.00 17.34
ATOM   1604  CA  ILE A 263      21.044  26.245   5.554  1.00 16.67
ATOM   1605  C   ILE A 263      22.419  26.042   4.931  1.00 16.64
ATOM   1606  O   ILE A 263      23.054  27.016   4.418  1.00 17.50
ATOM   1607  CB  ILE A 263      20.031  26.619   4.445  1.00 18.45
ATOM   1608  CG1 ILE A 263      18.608  26.522   4.996  1.00 18.90
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ATOM   1609  CG2 ILE A 263      20.192  25.694   3.243  1.00 18.17
ATOM   1610  CD1 ILE A 263      17.541  26.974   4.023  1.00 23.31
ATOM   1611  N   ILE A 264      22.897  24.802   4.988  1.00 16.67
ATOM   1612  CA  ILE A 264      24.199  24.413   4.409  1.00 14.63
ATOM   1613  C   ILE A 264      23.882  23.836   3.031  1.00 16.44
ATOM   1614  O   ILE A 264      23.019  22.915   2.908  1.00 13.53
ATOM   1615  CB  ILE A 264      24.877  23.320   5.253  1.00 14.79
ATOM   1616  CG1 ILE A 264      25.174  23.855   6.657  1.00 12.53
ATOM   1617  CG2 ILE A 264      26.154  22.846   4.563  1.00 12.07
ATOM   1618  CD1 ILE A 264      25.685  22.799   7.615  1.00 12.69
ATOM   1619  N   VAL A 265      24.546  24.334   1.992  1.00 17.37
ATOM   1620  CA  VAL A 265      24.258  23.841   0.627  1.00 18.64
ATOM   1621  C   VAL A 265      25.368  23.004   0.006  1.00 19.95
ATOM   1622  O   VAL A 265      25.202  22.455  -1.127  1.00 19.29
ATOM   1623  CB  VAL A 265      23.956  25.011  -0.322  1.00 18.56
ATOM   1624  CG1 VAL A 265      22.874  25.901   0.287  1.00 16.70
ATOM   1625  CG2 VAL A 265      25.227  25.802  -0.590  1.00 17.47
ATOM   1626  N   ARG A 266      26.486  22.872   0.707  1.00 20.42
ATOM   1627  CA  ARG A 266      27.617  22.098   0.165  1.00 20.48
ATOM   1628  C   ARG A 266      28.752  22.044   1.162  1.00 19.59
ATOM   1629  O   ARG A 266      29.030  23.055   1.885  1.00 19.51
ATOM   1630  CB  ARG A 266      28.112  22.763  -1.129  1.00 22.33
ATOM   1631  CG  ARG A 266      29.417  22.218  -1.713  1.00 22.40
ATOM   1632  CD  ARG A 266      29.939  23.170  -2.789  1.00 24.49
ATOM   1633  NE  ARG A 266      31.244  22.785  -3.322  1.00 24.49
ATOM   1634  CZ  ARG A 266      31.444  22.266  -4.528  1.00 26.46
ATOM   1635  NH1 ARG A 266      30.426  22.061  -5.349  1.00 25.31
ATOM   1636  NH2 ARG A 266      32.672  21.956  -4.920  1.00 27.88
ATOM   1637  N   VAL A 267      29.404  20.891   1.246  1.00 18.31
ATOM   1638  CA  VAL A 267      30.561  20.766   2.136  1.00 18.32
ATOM   1639  C   VAL A 267      31.671  20.072   1.369  1.00 18.25
ATOM   1640  O   VAL A 267      31.409  19.192   0.489  1.00 19.14
ATOM   1641  CB  VAL A 267      30.248  19.974   3.456  1.00 18.72
ATOM   1642  CG1 VAL A 267      28.784  19.645   3.547  1.00 18.30
ATOM   1643  CG2 VAL A 267      31.112  18.728   3.554  1.00 17.65
ATOM   1644  N   GLU A 268      32.903  20.471   1.647  1.00 16.18
ATOM   1645  CA  GLU A 268      34.046  19.848   0.990  1.00 17.71
ATOM   1646  C   GLU A 268      35.169  19.546   1.970  1.00 16.08
ATOM   1647  O   GLU A 268      35.293  20.191   3.064  1.00 13.62
ATOM   1648  CB  GLU A 268      34.550  20.717  -0.177  1.00 18.50
ATOM   1649  CG  GLU A 268      34.430  22.207   0.030  1.00 22.46
ATOM   1650  CD  GLU A 268      34.888  23.016  -1.181  1.00 22.13
ATOM   1651  OE1 GLU A 268      34.216  22.970  -2.237  1.00 20.91
ATOM   1652  OE2 GLU A 268      35.927  23.703  -1.067  1.00 22.44
ATOM   1653  N   ILE A 269      35.948  18.531   1.623  1.00 13.57
ATOM   1654  CA  ILE A 269      37.103  18.112   2.418  1.00 13.89
ATOM   1655  C   ILE A 269      38.259  18.448   1.485  1.00 14.06
ATOM   1656  O   ILE A 269      38.396  17.832   0.386  1.00 14.03
ATOM   1657  CB  ILE A 269      37.051  16.596   2.703  1.00 14.48
ATOM   1658  CG1 ILE A 269      35.697  16.239   3.327  1.00 14.59
ATOM   1659  CG2 ILE A 269      38.180  16.193   3.645  1.00 12.12
ATOM   1660  CD1 ILE A 269      35.358  17.022   4.592  1.00 13.16
ATOM   1661  N   ASN A 270      39.067  19.431   1.872  1.00 14.16
ATOM   1662  CA  ASN A 270      40.205  19.886   1.038  1.00 13.20
ATOM   1663  C   ASN A 270      39.774  20.177  -0.399  1.00 13.24
ATOM   1664  O   ASN A 270      40.427  19.714  -1.385  1.00 13.72
ATOM   1665  CB  ASN A 270      41.336  18.852   1.047  1.00 11.19
ATOM   1666  CG  ASN A 270      42.424  19.186   2.054  1.00 13.23
ATOM   1667  OD1 ASN A 270      42.339  20.224   2.790  1.00 13.62
ATOM   1668  ND2 ASN A 270      43.454  18.348   2.117  1.00 11.67
ATOM   1669  N   GLY A 271      38.691  20.932  -0.540  1.00 13.07
ATOM   1670  CA  GLY A 271      38.210  21.302  -1.858  1.00 13.58
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ATOM	1671	C	GLY	A	271	37.393	20.241	-2.564	1.00	14.87
ATOM	1672	O	GLY	A	271	36.704	20.545	-3.581	1.00	13.70
ATOM	1673	N	GLN	A	272	37.447	19.005	-2.076	1.00	14.64
ATOM	1674	CA	GLN	A	272	36.674	17.914	-2.705	1.00	14.45
ATOM	1675	C	GLN	A	272	35.261	17.870	-2.140	1.00	15.83
ATOM	1676	O	GLN	A	272	35.050	17.717	-0.902	1.00	15.81
ATOM	1677	CB	GLN	A	272	37.357	16.561	-2.486	1.00	14.85
ATOM	1678	CG	GLN	A	272	36.692	15.421	-3.250	1.00	14.45
ATOM	1679	CD	GLN	A	272	37.499	14.135	-3.211	1.00	16.34
ATOM	1680	OE1	GLN	A	272	37.097	13.134	-2.535	1.00	20.05
ATOM	1681	NE2	GLN	A	272	38.633	14.121	-3.909	1.00	13.09
ATOM	1682	N	ASP	A	273	34.291	17.995	-3.035	1.00	16.17
ATOM	1683	CA	ASP	A	273	32.857	17.987	-2.686	1.00	17.89
ATOM	1684	C	ASP	A	273	32.388	16.612	-2.201	1.00	16.92
ATOM	1685	O	ASP	A	273	32.713	15.566	-2.831	1.00	16.53
ATOM	1686	CB	ASP	A	273	32.060	18.395	-3.930	1.00	20.38
ATOM	1687	CG	ASP	A	273	30.576	18.526	-3.665	1.00	20.89
ATOM	1688	OD1	ASP	A	273	29.827	18.788	-4.630	1.00	21.98
ATOM	1689	OD2	ASP	A	273	30.155	18.378	-2.503	1.00	22.40
ATOM	1690	N	LEU	A	274	31.639	16.576	-1.101	1.00	17.95
ATOM	1691	CA	LEU	A	274	31.117	15.285	-0.587	1.00	19.37
ATOM	1692	C	LEU	A	274	30.092	14.805	-1.598	1.00	21.18
ATOM	1693	O	LEU	A	274	29.702	13.603	-1.623	1.00	20.08
ATOM	1694	CB	LEU	A	274	30.451	15.455	0.783	1.00	18.46
ATOM	1695	CG	LEU	A	274	31.356	15.595	2.011	1.00	19.89
ATOM	1696	CD1	LEU	A	274	30.489	15.558	3.267	1.00	17.23
ATOM	1697	CD2	LEU	A	274	32.392	14.463	2.050	1.00	17.76
ATOM	1698	N	LYS	A	275	29.646	15.736	-2.431	1.00	24.29
ATOM	1699	CA	LYS	A	275	28.676	15.452	-3.501	1.00	29.08
ATOM	1700	C	LYS	A	275	27.439	14.715	-3.000	1.00	28.92
ATOM	1701	O	LYS	A	275	27.119	13.586	-3.464	1.00	30.50
ATOM	1702	CB	LYS	A	275	29.360	14.642	-4.608	1.00	30.50
ATOM	1703	CG	LYS	A	275	28.720	14.818	-5.970	1.00	33.82
ATOM	1704	CD	LYS	A	275	29.476	14.059	-7.042	1.00	36.63
ATOM	1705	CE	LYS	A	275	28.848	14.297	-8.408	1.00	38.29
ATOM	1706	NZ	LYS	A	275	28.742	15.759	-8.702	1.00	39.43
ATOM	1707	N	MET	A	276	26.734	15.329	-2.063	1.00	30.55
ATOM	1708	CA	MET	A	276	25.519	14.722	-1.505	1.00	30.03
ATOM	1709	C	MET	A	276	24.319	15.592	-1.815	1.00	30.11
ATOM	1710	O	MET	A	276	24.465	16.818	-2.117	1.00	28.94
ATOM	1711	CB	MET	A	276	25.641	14.576	0.011	1.00	30.29
ATOM	1712	CG	MET	A	276	26.706	13.605	0.469	1.00	30.69
ATOM	1713	SD	MET	A	276	26.687	13.418	2.261	1.00	32.94
ATOM	1714	CE	MET	A	276	25.174	12.457	2.477	1.00	31.04
ATOM	1715	N	ASP	A	277	23.136	14.994	-1.756	1.00	31.37
ATOM	1716	CA	ASP	A	277	21.906	15.750	-1.994	1.00	33.34
ATOM	1717	C	ASP	A	277	21.903	16.864	-0.955	1.00	33.96
ATOM	1718	O	ASP	A	277	22.070	16.608	0.278	1.00	30.80
ATOM	1719	CB	ASP	A	277	20.682	14.851	-1.818	1.00	36.24
ATOM	1720	CG	ASP	A	277	19.377	15.595	-2.029	1.00	38.93
ATOM	1721	OD1	ASP	A	277	18.332	14.925	-2.168	1.00	42.69
ATOM	1722	OD2	ASP	A	277	19.386	16.844	-2.049	1.00	39.38
ATOM	1723	N	CYS	A	278	21.732	18.089	-1.432	1.00	34.50
ATOM	1724	CA	CYS	A	278	21.725	19.294	-0.581	1.00	37.44
ATOM	1725	C	CYS	A	278	20.988	19.126	0.749	1.00	35.96
ATOM	1726	O	CYS	A	278	21.503	19.540	1.834	1.00	34.38
ATOM	1727	CB	CYS	A	278	21.108	20.460	-1.362	1.00	39.86
ATOM	1728	SG	CYS	A	278	21.760	22.075	-0.852	1.00	50.09
ATOM	1729	N	LYS	A	279	19.802	18.529	0.705	1.00	33.76
ATOM	1730	CA	LYS	A	279	19.003	18.359	1.931	1.00	32.65
ATOM	1731	C	LYS	A	279	19.584	17.430	2.996	1.00	30.06
ATOM	1732	O	LYS	A	279	19.173	17.501	4.189	1.00	27.89

ATOM	1733	CB	LYS	A	279	17.574	17.939	1.567	1.00	34.74
ATOM	1734	CG	LYS	A	279	17.459	16.765	0.612	1.00	39.08
ATOM	1735	CD	LYS	A	279	17.576	15.429	1.326	1.00	41.32
ATOM	1736	CE	LYS	A	279	17.185	14.289	0.393	1.00	42.86
ATOM	1737	NZ	LYS	A	279	17.118	12.978	1.099	1.00	45.07
ATOM	1738	N	GLU	A	280	20.525	16.570	2.621	1.00	27.06
ATOM	1739	CA	GLU	A	280	21.141	15.659	3.612	1.00	26.22
ATOM	1740	C	GLU	A	280	21.900	16.458	4.673	1.00	25.34
ATOM	1741	O	GLU	A	280	21.920	16.074	5.886	1.00	23.01
ATOM	1742	CB	GLU	A	280	22.109	14.693	2.928	1.00	27.98
ATOM	1743	CG	GLU	A	280	21.459	13.725	1.946	1.00	31.24
ATOM	1744	CD	GLU	A	280	20.486	12.765	2.610	1.00	32.55
ATOM	1745	OE1	GLU	A	280	20.447	12.704	3.857	1.00	33.21
ATOM	1746	OE2	GLU	A	280	19.763	12.058	1.878	1.00	34.72
ATOM	1747	N	TYR	A	281	22.515	17.562	4.255	1.00	23.32
ATOM	1748	CA	TYR	A	281	23.295	18.420	5.176	1.00	22.69
ATOM	1749	C	TYR	A	281	22.415	19.082	6.219	1.00	23.40
ATOM	1750	O	TYR	A	281	22.904	19.470	7.327	1.00	23.11
ATOM	1751	CB	TYR	A	281	24.035	19.515	4.400	1.00	20.26
ATOM	1752	CG	TYR	A	281	24.958	18.993	3.328	1.00	19.39
ATOM	1753	CD1	TYR	A	281	25.858	17.961	3.601	1.00	17.78
ATOM	1754	CD2	TYR	A	281	24.943	19.534	2.042	1.00	18.55
ATOM	1755	CE1	TYR	A	281	26.719	17.478	2.623	1.00	17.05
ATOM	1756	CE2	TYR	A	281	25.808	19.058	1.051	1.00	18.53
ATOM	1757	CZ	TYR	A	281	26.692	18.028	1.355	1.00	17.87
ATOM	1758	OH	TYR	A	281	27.558	17.533	0.407	1.00	18.13
ATOM	1759	N	ASN	A	282	21.136	19.232	5.899	1.00	22.82
ATOM	1760	CA	ASN	A	282	20.194	19.881	6.820	1.00	23.17
ATOM	1761	C	ASN	A	282	19.089	18.922	7.238	1.00	23.84
ATOM	1762	O	ASN	A	282	17.987	19.366	7.685	1.00	21.83
ATOM	1763	CB	ASN	A	282	19.598	21.111	6.137	1.00	22.42
ATOM	1764	CG	ASN	A	282	20.665	22.018	5.549	1.00	23.90
ATOM	1765	OD1	ASN	A	282	21.426	22.693	6.298	1.00	23.87
ATOM	1766	ND2	ASN	A	282	20.760	22.044	4.224	1.00	23.36
ATOM	1767	N	TYR	A	283	19.343	17.623	7.102	1.00	25.74
ATOM	1768	CA	TYR	A	283	18.322	16.633	7.472	1.00	28.01
ATOM	1769	C	TYR	A	283	17.905	16.843	8.912	1.00	29.29
ATOM	1770	O	TYR	A	283	18.686	16.572	9.881	1.00	27.50
ATOM	1771	CB	TYR	A	283	18.810	15.200	7.280	1.00	29.52
ATOM	1772	CG	TYR	A	283	17.783	14.200	7.756	1.00	31.64
ATOM	1773	CD1	TYR	A	283	16.428	14.374	7.460	1.00	32.38
ATOM	1774	CD2	TYR	A	283	18.153	13.098	8.523	1.00	33.44
ATOM	1775	CE1	TYR	A	283	15.468	13.479	7.919	1.00	33.96
ATOM	1776	CE2	TYR	A	283	17.201	12.194	8.987	1.00	35.48
ATOM	1777	CZ	TYR	A	283	15.860	12.392	8.683	1.00	35.35
ATOM	1778	OH	TYR	A	283	14.918	11.504	9.149	1.00	36.54
ATOM	1779	N	ASP	A	284	16.665	17.299	9.043	1.00	30.23
ATOM	1780	CA	ASP	A	284	16.026	17.638	10.312	1.00	28.41
ATOM	1781	C	ASP	A	284	16.273	19.129	10.409	1.00	27.12
ATOM	1782	O	ASP	A	284	15.309	19.953	10.305	1.00	25.19
ATOM	1783	CB	ASP	A	284	16.684	16.928	11.494	1.00	33.07
ATOM	1784	CG	ASP	A	284	16.035	17.283	12.813	1.00	33.49
ATOM	1785	DD1	ASP	A	284	16.520	16.815	13.860	1.00	37.38
ATOM	1786	OD2	ASP	A	284	15.035	18.031	12.802	1.00	35.95
ATOM	1787	N	LYS	A	285	17.542	19.499	10.563	1.00	22.62
ATOM	1788	CA	LYS	A	285	17.914	20.927	10.678	1.00	20.42
ATOM	1789	C	LYS	A	285	19.420	21.145	10.812	1.00	19.89
ATOM	1790	O	LYS	A	285	20.209	20.174	11.037	1.00	19.63
ATOM	1791	CB	LYS	A	285	17.230	21.540	11.903	1.00	18.63
ATOM	1792	CG	LYS	A	285	17.753	20.987	13.232	1.00	16.63
ATOM	1793	CD	LYS	A	285	16.966	21.538	14.421	1.00	14.93
ATOM	1794	CE	LYS	A	285	17.551	21.088	15.754	1.00	15.57

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ATOM   1795  NZ  LYS A 285      17.482  19.606  15.974  1.00 13.50
ATOM   1796  N   SER A 286      19.827  22.402  10.678  1.00 17.19
ATOM   1797  CA  SER A 286      21.241  22.808  10.827  1.00 16.52
ATOM   1798  C   SER A 286      21.228  24.034  11.727  1.00 15.74
ATOM   1799  O   SER A 286      20.592  25.080  11.377  1.00 14.46
ATOM   1800  CB  SER A 286      21.862  23.179   9.475  1.00 16.90
ATOM   1801  OG  SER A 286      22.064  22.036   8.671  1.00 16.60
ATOM   1802  N   ILE A 287      21.900  23.946  12.870  1.00 13.25
ATOM   1803  CA  ILE A 287      21.933  25.079  13.805  1.00 13.97
ATOM   1804  C   ILE A 287      23.342  25.511  14.206  1.00 15.14
ATOM   1805  O   ILE A 287      24.346  24.750  14.024  1.00 14.63
ATOM   1806  CB  ILE A 287      21.145  24.757  15.102  1.00 13.55
ATOM   1807  CG1 ILE A 287      21.898  23.717  15.929  1.00 12.52
ATOM   1808  CG2 ILE A 287      19.758  24.214  14.754  1.00 12.10
ATOM   1809  CD1 ILE A 287      21.274  23.455  17.283  1.00 14.43
ATOM   1810  N   VAL A 288      23.431  26.728  14.732  1.00 14.78
ATOM   1811  CA  VAL A 288      24.701  27.292  15.223  1.00 15.54
ATOM   1812  C   VAL A 288      24.510  27.262  16.733  1.00 16.05
ATOM   1813  O   VAL A 288      23.571  27.930  17.278  1.00 15.61
ATOM   1814  CB  VAL A 288      24.896  28.751  14.767  1.00 15.19
ATOM   1815  CG1 VAL A 288      26.248  29.259  15.239  1.00 14.78
ATOM   1816  CG2 VAL A 288      24.791  28.842  13.246  1.00 15.19
ATOM   1817  N   ASP A 289      25.355  26.512  17.430  1.00 15.91
ATOM   1818  CA  ASP A 289      25.194  26.373  18.891  1.00 14.81
ATOM   1819  C   ASP A 289      26.467  26.444  19.724  1.00 15.27
ATOM   1820  O   ASP A 289      27.322  25.504  19.700  1.00 15.75
ATOM   1821  CB  ASP A 289      24.467  25.060  19.168  1.00 12.65
ATOM   1822  CG  ASP A 289      24.264  24.806  20.634  1.00 13.29
ATOM   1823  OD1 ASP A 289      24.372  25.768  21.426  1.00 11.88
ATOM   1824  OD2 ASP A 289      23.981  23.639  20.988  1.00 10.63
ATOM   1825  N   SER A 290      26.604  27.529  20.479  1.00 15.19
ATOM   1826  CA  SER A 290      27.782  27.730  21.346  1.00 14.55
ATOM   1827  C   SER A 290      27.770  26.748  22.510  1.00 15.43
ATOM   1828  O   SER A 290      28.823  26.539  23.186  1.00 13.77
ATOM   1829  CB  SER A 290      27.795  29.165  21.888  1.00 15.33
ATOM   1830  OG  SER A 290      26.614  29.442  22.620  1.00 12.79
ATOM   1831  N   GLY A 291      26.612  26.137  22.759  1.00 14.34
ATOM   1832  CA  GLY A 291      26.486  25.192  23.856  1.00 14.93
ATOM   1833  C   GLY A 291      26.779  23.751  23.479  1.00 16.64
ATOM   1834  O   GLY A 291      26.502  22.792  24.277  1.00 14.49
ATOM   1835  N   THR A 292      27.305  23.556  22.277  1.00 16.47
ATOM   1836  CA  THR A 292      27.674  22.202  21.812  1.00 15.30
ATOM   1837  C   THR A 292      29.159  22.215  21.482  1.00 14.67
ATOM   1838  O   THR A 292      29.653  23.102  20.725  1.00 13.26
ATOM   1839  CB  THR A 292      26.889  21.784  20.550  1.00 15.29
ATOM   1840  OG1 THR A 292      25.522  21.521  20.895  1.00 13.88
ATOM   1841  CG2 THR A 292      27.514  20.527  19.932  1.00 13.59
ATOM   1842  N   THR A 293      29.887  21.253  22.027  1.00 14.43
ATOM   1843  CA  THR A 293      31.343  21.162  21.801  1.00 12.76
ATOM   1844  C   THR A 293      31.749  20.906  20.348  1.00 14.47
ATOM   1845  O   THR A 293      32.478  21.735  19.712  1.00 14.61
ATOM   1846  CB  THR A 293      31.949  20.035  22.650  1.00 12.36
ATOM   1847  OG1 THR A 293      31.726  20.304  24.041  1.00 10.79
ATOM   1848  CG2 THR A 293      33.437  19.916  22.382  1.00  9.56
ATOM   1849  N   ASN A 294      31.286  19.783  19.810  1.00 13.53
ATOM   1850  CA  ASN A 294      31.648  19.349  18.440  1.00 15.26
ATOM   1851  C   ASN A 294      30.871  19.917  17.276  1.00 15.45
ATOM   1852  O   ASN A 294      29.851  20.662  17.431  1.00 13.68
ATOM   1853  CB  ASN A 294      31.494  17.832  18.307  1.00 14.81
ATOM   1854  CG  ASN A 294      32.351  17.051  19.270  1.00 14.13
ATOM   1855  OD1 ASN A 294      32.264  15.791  19.304  1.00 19.85
ATOM   1856  ND2 ASN A 294      33.174  17.734  20.051  1.00 13.25
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ATOM	1857	N	LEU	A	295	31.365	19.556	16.096	1.00	15.21
ATOM	1858	CA	LEU	A	295	30.689	19.866	14.835	1.00	15.29
ATOM	1859	C	LEU	A	295	29.924	18.548	14.719	1.00	16.43
ATOM	1860	O	LEU	A	295	30.556	17.452	14.575	1.00	16.34
ATOM	1861	CB	LEU	A	295	31.674	19.963	13.671	1.00	13.54
ATOM	1862	CG	LEU	A	295	31.017	19.837	12.287	1.00	14.74
ATOM	1863	CD1	LEU	A	295	29.991	20.947	12.109	1.00	14.37
ATOM	1864	CD2	LEU	A	295	32.073	19.903	11.179	1.00	13.91
ATOM	1865	N	ARG	A	296	28.606	18.591	14.831	1.00	16.08
ATOM	1866	CA	ARG	A	296	27.827	17.349	14.719	1.00	17.47
ATOM	1867	C	ARG	A	296	27.180	17.300	13.343	1.00	17.04
ATOM	1868	O	ARG	A	296	26.655	18.339	12.840	1.00	15.28
ATOM	1869	CB	ARG	A	296	26.785	17.290	15.834	1.00	18.37
ATOM	1870	CG	ARG	A	296	27.421	17.444	17.208	1.00	19.73
ATOM	1871	CD	ARG	A	296	26.425	17.262	18.324	1.00	22.63
ATOM	1872	NE	ARG	A	296	26.292	15.867	18.722	1.00	25.23
ATOM	1873	CZ	ARG	A	296	25.135	15.223	18.776	1.00	26.52
ATOM	1874	NH1	ARG	A	296	24.011	15.851	18.446	1.00	27.11
ATOM	1875	NH2	ARG	A	296	25.100	13.961	19.179	1.00	27.00
ATOM	1876	N	LEU	A	297	27.211	16.123	12.722	1.00	15.65
ATOM	1877	CA	LEU	A	297	26.660	15.945	11.356	1.00	15.33
ATOM	1878	C	LEU	A	297	25.657	14.800	11.246	1.00	17.46
ATOM	1879	O	LEU	A	297	25.795	13.743	11.938	1.00	16.37
ATOM	1880	CB	LEU	A	297	27.806	15.681	10.371	1.00	12.00
ATOM	1881	CG	LEU	A	297	28.925	16.729	10.277	1.00	11.84
ATOM	1882	CD1	LEU	A	297	30.136	16.148	9.561	1.00	8.16
ATOM	1883	CD2	LEU	A	297	28.410	17.962	9.559	1.00	8.99
ATOM	1884	N	PRO	A	298	24.636	14.960	10.386	1.00	19.11
ATOM	1885	CA	PRO	A	298	23.636	13.901	10.217	1.00	20.53
ATOM	1886	C	PRO	A	298	24.387	12.619	9.868	1.00	21.03
ATOM	1887	O	PRO	A	298	25.419	12.668	9.131	1.00	21.77
ATOM	1888	CB	PRO	A	298	22.788	14.411	9.054	1.00	19.18
ATOM	1889	CG	PRO	A	298	22.861	15.897	9.209	1.00	20.46
ATOM	1890	CD	PRO	A	298	24.335	16.111	9.517	1.00	19.69
ATOM	1891	N	LYS	A	299	23.911	11.487	10.376	1.00	22.77
ATOM	1892	CA	LYS	A	299	24.562	10.169	10.137	1.00	25.34
ATOM	1893	C	LYS	A	299	25.169	9.979	8.753	1.00	24.56
ATOM	1894	O	LYS	A	299	26.393	9.681	8.617	1.00	22.24
ATOM	1895	CB	LYS	A	299	23.566	9.034	10.387	1.00	29.05
ATOM	1896	CG	LYS	A	299	24.156	7.650	10.146	1.00	33.27
ATOM	1897	CD	LYS	A	299	23.144	6.547	10.408	1.00	37.10
ATOM	1898	CE	LYS	A	299	23.758	5.178	10.151	1.00	38.78
ATOM	1899	NZ	LYS	A	299	22.775	4.077	10.380	1.00	42.51
ATOM	1900	N	LYS	A	300	24.340	10.127	7.729	1.00	24.24
ATOM	1901	CA	LYS	A	300	24.774	9.955	6.333	1.00	25.41
ATOM	1902	C	LYS	A	300	25.901	10.916	5.952	1.00	24.12
ATOM	1903	O	LYS	A	300	26.889	10.515	5.262	1.00	23.67
ATOM	1904	CB	LYS	A	300	23.576	10.154	5.403	1.00	28.77
ATOM	1905	CG	LYS	A	300	23.788	9.660	3.990	1.00	33.37
ATOM	1906	CD	LYS	A	300	22.661	8.718	3.569	1.00	38.01
ATOM	1907	CE	LYS	A	300	21.298	9.393	3.652	1.00	40.18
ATOM	1908	NZ	LYS	A	300	20.191	8.455	3.291	1.00	42.69
ATOM	1909	N	VAL	A	301	25.784	12.172	6.368	1.00	20.46
ATOM	1910	CA	VAL	A	301	26.832	13.169	6.058	1.00	18.21
ATOM	1911	C	VAL	A	301	28.083	12.842	6.867	1.00	17.93
ATOM	1912	O	VAL	A	301	29.241	12.929	6.343	1.00	16.84
ATOM	1913	CB	VAL	A	301	26.358	14.601	6.391	1.00	17.29
ATOM	1914	CG1	VAL	A	301	27.468	15.605	6.105	1.00	15.43
ATOM	1915	CG2	VAL	A	301	25.118	14.935	5.565	1.00	16.34
ATOM	1916	N	PHE	A	302	27.887	12.448	8.122	1.00	17.43
ATOM	1917	CA	PHE	A	302	29.032	12.099	8.990	1.00	18.16
ATOM	1918	C	PHE	A	302	29.854	10.957	8.399	1.00	18.95

ATOM	1919	O	PHE	A	302	31.121	11.004	8.399	1.00	18.60
ATOM	1920	CB	PHE	A	302	28.550	11.713	10.391	1.00	17.38
ATOM	1921	CG	PHE	A	302	29.639	11.180	11.265	1.00	19.16
ATOM	1922	CD1	PHE	A	302	29.866	9.810	11.362	1.00	17.81
ATOM	1923	CD2	PHE	A	302	30.498	12.051	11.923	1.00	18.89
ATOM	1924	CE1	PHE	A	302	30.934	9.320	12.096	1.00	19.63
ATOM	1925	CE2	PHE	A	302	31.573	11.569	12.660	1.00	19.90
ATOM	1926	CZ	PHE	A	302	31.793	10.201	12.747	1.00	19.13
ATOM	1927	N	GLU	A	303	29.172	9.931	7.901	1.00	19.20
ATOM	1928	CA	GLU	A	303	29.859	8.769	7.295	1.00	21.56
ATOM	1929	C	GLU	A	303	30.679	9.189	6.083	1.00	19.19
ATOM	1930	O	GLU	A	303	31.865	8.777	5.929	1.00	18.04
ATOM	1931	CB	GLU	A	303	28.836	7.704	6.888	1.00	24.72
ATOM	1932	CG	GLU	A	303	28.246	6.939	8.069	1.00	29.90
ATOM	1933	CD	GLU	A	303	27.051	6.076	7.683	1.00	33.77
ATOM	1934	OE1	GLU	A	303	26.585	5.294	8.541	1.00	36.31
ATOM	1935	OE2	GLU	A	303	26.572	6.183	6.528	1.00	36.51
ATOM	1936	N	ALA	A	304	30.088	9.998	5.216	1.00	17.86
ATOM	1937	CA	ALA	A	304	30.805	10.472	4.007	1.00	18.11
ATOM	1938	C	ALA	A	304	31.999	11.354	4.386	1.00	17.49
ATOM	1939	O	ALA	A	304	33.102	11.242	3.777	1.00	17.76
ATOM	1940	CB	ALA	A	304	29.849	11.244	3.102	1.00	17.14
ATOM	1941	N	ALA	A	305	31.812	12.221	5.377	1.00	17.06
ATOM	1942	CA	ALA	A	305	32.900	13.128	5.829	1.00	16.43
ATOM	1943	C	ALA	A	305	34.092	12.387	6.440	1.00	16.39
ATOM	1944	O	ALA	A	305	35.272	12.644	6.054	1.00	17.78
ATOM	1945	CB	ALA	A	305	32.351	14.140	6.833	1.00	15.92
ATOM	1946	N	VAL	A	306	33.842	11.476	7.375	1.00	15.50
ATOM	1947	CA	VAL	A	306	34.971	10.756	8.004	1.00	17.31
ATOM	1948	C	VAL	A	306	35.719	9.920	6.987	1.00	16.95
ATOM	1949	O	VAL	A	306	36.983	9.829	7.029	1.00	16.21
ATOM	1950	CB	VAL	A	306	34.514	9.845	9.162	1.00	17.93
ATOM	1951	CG1	VAL	A	306	33.954	10.693	10.280	1.00	19.37
ATOM	1952	CG2	VAL	A	306	33.477	8.851	8.669	1.00	19.63
ATOM	1953	N	LYS	A	307	34.987	9.307	6.065	1.00	17.11
ATOM	1954	CA	LYS	A	307	35.641	8.488	5.032	1.00	18.39
ATOM	1955	C	LYS	A	307	36.654	9.350	4.279	1.00	17.59
ATOM	1956	O	LYS	A	307	37.848	8.959	4.107	1.00	18.09
ATOM	1957	CB	LYS	A	307	34.602	7.940	4.052	1.00	19.72
ATOM	1958	CG	LYS	A	307	35.212	7.112	2.930	1.00	24.02
ATOM	1959	CD	LYS	A	307	34.147	6.415	2.102	1.00	26.72
ATOM	1960	CE	LYS	A	307	34.779	5.505	1.058	1.00	29.36
ATOM	1961	NZ	LYS	A	307	33.745	4.869	0.193	1.00	31.68
ATOM	1962	N	SER	A	308	36.205	10.520	3.842	1.00	16.75
ATOM	1963	CA	SER	A	308	37.059	11.460	3.091	1.00	17.46
ATOM	1964	C	SER	A	308	38.198	12.000	3.953	1.00	16.11
ATOM	1965	O	SER	A	308	39.378	12.056	3.501	1.00	17.12
ATOM	1966	CB	SER	A	308	36.208	12.620	2.560	1.00	17.51
ATOM	1967	OG	SER	A	308	36.982	13.505	1.774	1.00	19.76
ATOM	1968	N	ILE	A	309	37.886	12.400	5.180	1.00	16.07
ATOM	1969	CA	ILE	A	309	38.926	12.927	6.083	1.00	14.41
ATOM	1970	C	ILE	A	309	39.945	11.831	6.378	1.00	14.93
ATOM	1971	O	ILE	A	309	41.171	12.112	6.505	1.00	14.90
ATOM	1972	CB	ILE	A	309	38.310	13.439	7.401	1.00	13.88
ATOM	1973	CG1	ILE	A	309	37.346	14.595	7.099	1.00	13.08
ATOM	1974	CG2	ILE	A	309	39.404	13.887	8.350	1.00	11.40
ATOM	1975	CD1	ILE	A	309	36.575	15.084	8.315	1.00	12.70
ATOM	1976	N	LYS	A	310	39.475	10.592	6.485	1.00	15.62
ATOM	1977	CA	LYS	A	310	40.375	9.437	6.752	1.00	17.74
ATOM	1978	C	LYS	A	310	41.289	9.223	5.559	1.00	17.22
ATOM	1979	O	LYS	A	310	42.532	9.061	5.715	1.00	16.87
ATOM	1980	CB	LYS	A	310	39.577	8.149	6.976	1.00	18.35

ATOM	1981	CG	LYS	A	310	39.003	7.953	8.373	1.00	20.85
ATOM	1982	CD	LYS	A	310	38.269	6.617	8.432	1.00	22.02
ATOM	1983	CE	LYS	A	310	37.584	6.404	9.757	1.00	25.26
ATOM	1984	NZ	LYS	A	310	36.808	5.129	9.752	1.00	26.15
ATOM	1985	N	ALA	A	311	40.698	9.211	4.370	1.00	15.56
ATOM	1986	CA	ALA	A	311	41.466	9.007	3.124	1.00	17.77
ATOM	1987	C	ALA	A	311	42.549	10.071	2.990	1.00	17.36
ATOM	1988	O	ALA	A	311	43.708	9.768	2.578	1.00	20.71
ATOM	1989	CB	ALA	A	311	40.524	9.047	1.908	1.00	14.11
ATOM	1990	N	ALA	A	312	42.210	11.309	3.330	1.00	16.63
ATOM	1991	CA	ALA	A	312	43.184	12.418	3.235	1.00	15.73
ATOM	1992	C	ALA	A	312	44.247	12.342	4.333	1.00	15.59
ATOM	1993	O	ALA	A	312	45.348	12.958	4.207	1.00	13.09
ATOM	1994	CB	ALA	A	312	42.449	13.758	3.301	1.00	13.50
ATOM	1995	N	SER	A	313	43.950	11.593	5.393	1.00	17.05
ATOM	1996	CA	SER	A	313	44.867	11.432	6.560	1.00	19.05
ATOM	1997	C	SER	A	313	45.579	10.085	6.593	1.00	19.49
ATOM	1998	O	SER	A	313	46.332	9.787	7.568	1.00	21.95
ATOM	1999	CB	SER	A	313	44.075	11.555	7.865	1.00	17.23
ATOM	2000	OG	SER	A	313	43.501	12.834	8.003	1.00	23.58
ATOM	2001	N	SER	A	314	45.368	9.270	5.570	1.00	20.76
ATOM	2002	CA	SER	A	314	45.952	7.909	5.513	1.00	22.73
ATOM	2003	C	SER	A	314	47.436	7.725	5.838	1.00	21.90
ATOM	2004	O	SER	A	314	47.825	6.639	6.359	1.00	20.76
ATOM	2005	CB	SER	A	314	45.650	7.271	4.150	1.00	22.50
ATOM	2006	OG	SER	A	314	46.207	8.032	3.093	1.00	27.94
ATOM	2007	N	THR	A	315	48.285	8.714	5.570	1.00	20.90
ATOM	2008	CA	THR	A	315	49.732	8.523	5.868	1.00	23.78
ATOM	2009	C	THR	A	315	50.020	8.454	7.361	1.00	25.42
ATOM	2010	O	THR	A	315	51.191	8.219	7.784	1.00	26.24
ATOM	2011	CB	THR	A	315	50.616	9.634	5.257	1.00	23.59
ATOM	2012	OG1	THR	A	315	50.256	10.901	5.818	1.00	22.73
ATOM	2013	CG2	THR	A	315	50.456	9.668	3.745	1.00	22.59
ATOM	2014	N	GLU	A	316	48.994	8.655	8.176	1.00	27.46
ATOM	2015	CA	GLU	A	316	49.170	8.589	9.638	1.00	29.81
ATOM	2016	C	GLU	A	316	48.258	7.503	10.201	1.00	30.55
ATOM	2017	O	GLU	A	316	47.110	7.314	9.710	1.00	29.51
ATOM	2018	CB	GLU	A	316	48.819	9.931	10.279	1.00	32.51
ATOM	2019	CG	GLU	A	316	49.277	10.039	11.725	1.00	36.72
ATOM	2020	CD	GLU	A	316	50.571	10.818	11.879	1.00	36.99
ATOM	2021	OE1	GLU	A	316	51.456	10.728	11.003	1.00	37.39
ATOM	2022	OE2	GLU	A	316	50.704	11.522	12.893	1.00	41.14
ATOM	2023	N	LYS	A	317	48.736	6.775	11.205	1.00	32.69
ATOM	2024	CA	LYS	A	317	47.928	5.702	11.828	1.00	35.09
ATOM	2025	C	LYS	A	317	47.216	6.223	13.071	1.00	33.44
ATOM	2026	O	LYS	A	317	47.804	7.005	13.883	1.00	34.13
ATOM	2027	CB	LYS	A	317	48.809	4.505	12.202	1.00	38.52
ATOM	2028	CG	LYS	A	317	49.980	4.844	13.106	1.00	43.41
ATOM	2029	CD	LYS	A	317	50.665	3.588	13.638	1.00	46.99
ATOM	2030	CE	LYS	A	317	51.165	2.686	12.514	1.00	48.65
ATOM	2031	NZ	LYS	A	317	51.731	1.410	13.043	1.00	49.49
ATOM	2032	N	PHE	A	318	45.965	5.818	13.245	1.00	31.00
ATOM	2033	CA	PHE	A	318	45.188	6.272	14.408	1.00	30.33
ATOM	2034	C	PHE	A	318	44.683	5.120	15.263	1.00	30.57
ATOM	2035	O	PHE	A	318	44.171	4.088	14.732	1.00	29.80
ATOM	2036	CB	PHE	A	318	44.014	7.135	13.944	1.00	28.83
ATOM	2037	CG	PHE	A	318	44.436	8.367	13.197	1.00	28.31
ATOM	2038	CD1	PHE	A	318	44.625	8.333	11.817	1.00	27.09
ATOM	2039	CD2	PHE	A	318	44.686	9.554	13.879	1.00	27.59
ATOM	2040	CE1	PHE	A	318	45.060	9.466	11.130	1.00	27.37
ATOM	2041	CE2	PHE	A	318	45.122	10.691	13.200	1.00	26.98
ATOM	2042	CZ	PHE	A	318	45.309	10.648	11.826	1.00	27.12

ATOM	2043	N	PRO	A	319	44.805	5.252	16.591	1.00	30.02
ATOM	2044	CA	PRO	A	319	44.361	4.222	17.535	1.00	30.20
ATOM	2045	C	PRO	A	319	42.864	3.977	17.460	1.00	29.88
ATOM	2046	O	PRO	A	319	42.087	4.882	17.040	1.00	29.27
ATOM	2047	CB	PRO	A	319	44.777	4.793	18.890	1.00	30.49
ATOM	2048	CG	PRO	A	319	44.667	6.276	18.674	1.00	31.99
ATOM	2049	CD	PRO	A	319	45.308	6.437	17.309	1.00	30.77
ATOM	2050	N	ASP	A	320	42.449	2.779	17.860	1.00	30.08
ATOM	2051	CA	ASP	A	320	41.018	2.389	17.867	1.00	29.79
ATOM	2052	C	ASP	A	320	40.183	3.406	18.652	1.00	28.71
ATOM	2053	O	ASP	A	320	40.560	3.804	19.804	1.00	27.90
ATOM	2054	CB	ASP	A	320	40.855	1.009	18.520	1.00	31.81
ATOM	2055	CG	ASP	A	320	41.545	-0.104	17.740	1.00	34.27
ATOM	2056	OD1	ASP	A	320	41.787	-1.182	18.331	1.00	34.13
ATOM	2057	OD2	ASP	A	320	41.833	0.092	16.538	1.00	35.41
ATOM	2058	N	GLY	A	321	39.067	3.837	18.068	1.00	26.34
ATOM	2059	CA	GLY	A	321	38.193	4.781	18.745	1.00	24.91
ATOM	2060	C	GLY	A	321	38.439	6.259	18.490	1.00	23.96
ATOM	2061	O	GLY	A	321	37.632	7.129	18.941	1.00	23.66
ATOM	2062	N	PHE	A	322	39.519	6.591	17.793	1.00	22.07
ATOM	2063	CA	PHE	A	322	39.810	8.011	17.507	1.00	20.41
ATOM	2064	C	PHE	A	322	38.705	8.670	16.684	1.00	20.53
ATOM	2065	O	PHE	A	322	38.157	9.743	17.078	1.00	20.75
ATOM	2066	CB	PHE	A	322	41.126	8.157	16.747	1.00	19.07
ATOM	2067	CG	PHE	A	322	41.405	9.567	16.306	1.00	19.05
ATOM	2068	CD1	PHE	A	322	41.701	10.555	17.240	1.00	17.04
ATOM	2069	CD2	PHE	A	322	41.326	9.918	14.960	1.00	17.20
ATOM	2070	CE1	PHE	A	322	41.912	11.872	16.840	1.00	18.99
ATOM	2071	CE2	PHE	A	322	41.535	11.229	14.552	1.00	17.99
ATOM	2072	CZ	PHE	A	322	41.829	12.210	15.494	1.00	16.28
ATOM	2073	N	TRP	A	323	38.367	8.063	15.552	1.00	20.75
ATOM	2074	CA	TRP	A	323	37.330	8.622	14.664	1.00	22.37
ATOM	2075	C	TRP	A	323	35.940	8.626	15.273	1.00	23.50
ATOM	2076	O	TRP	A	323	35.036	9.379	14.804	1.00	22.84
ATOM	2077	CB	TRP	A	323	37.322	7.872	13.335	1.00	21.45
ATOM	2078	CG	TRP	A	323	38.643	7.924	12.664	1.00	20.71
ATOM	2079	CD1	TRP	A	323	39.566	6.921	12.594	1.00	20.50
ATOM	2080	CD2	TRP	A	323	39.217	9.049	11.986	1.00	20.31
ATOM	2081	NE1	TRP	A	323	40.679	7.349	11.913	1.00	20.18
ATOM	2082	CE2	TRP	A	323	40.492	8.651	11.527	1.00	20.95
ATOM	2083	CE3	TRP	A	323	38.778	10.354	11.722	1.00	20.80
ATOM	2084	CZ2	TRP	A	323	41.337	9.511	10.816	1.00	20.49
ATOM	2085	CZ3	TRP	A	323	39.618	11.212	11.013	1.00	21.58
ATOM	2086	CH2	TRP	A	323	40.885	10.784	10.569	1.00	21.15
ATOM	2087	N	LEU	A	324	35.734	7.810	16.300	1.00	26.13
ATOM	2088	CA	LEU	A	324	34.428	7.772	16.983	1.00	27.96
ATOM	2089	C	LEU	A	324	34.417	8.877	18.040	1.00	29.09
ATOM	2090	O	LEU	A	324	33.413	9.044	18.799	1.00	29.23
ATOM	2091	CB	LEU	A	324	34.202	6.408	17.642	1.00	29.11
ATOM	2092	CG	LEU	A	324	33.910	5.236	16.697	1.00	30.04
ATOM	2093	CD1	LEU	A	324	33.791	3.948	17.501	1.00	30.31
ATOM	2094	CD2	LEU	A	324	32.625	5.499	15.924	1.00	29.47
ATOM	2095	N	GLY	A	325	35.513	9.634	18.098	1.00	29.34
ATOM	2096	CA	GLY	A	325	35.632	10.728	19.048	1.00	30.68
ATOM	2097	C	GLY	A	325	35.794	10.280	20.489	1.00	31.19
ATOM	2098	O	GLY	A	325	35.687	11.109	21.442	1.00	31.53
ATOM	2099	N	GLU	A	326	36.067	8.995	20.683	1.00	32.22
ATOM	2100	CA	GLU	A	326	36.225	8.436	22.042	1.00	34.09
ATOM	2101	C	GLU	A	326	37.655	8.482	22.563	1.00	33.56
ATOM	2102	O	GLU	A	326	37.907	8.933	23.720	1.00	34.19
ATOM	2103	CB	GLU	A	326	35.728	6.992	22.062	1.00	35.56
ATOM	2104	CG	GLU	A	326	34.267	6.847	21.683	1.00	38.03

ATOM	2105	CD	GLU	A	326	33.855	5.401	21.494	1.00	40.36
ATOM	2106	OE1	GLU	A	326	32.662	5.162	21.207	1.00	41.84
ATOM	2107	OE2	GLU	A	326	34.720	4.506	21.626	1.00	42.10
ATOM	2108	N	GLN	A	327	38.602	8.031	21.750	1.00	32.81
ATOM	2109	CA	GLN	A	327	40.009	8.017	22.178	1.00	31.36
ATOM	2110	C	GLN	A	327	40.844	9.142	21.608	1.00	30.14
ATOM	2111	O	GLN	A	327	40.612	9.626	20.458	1.00	28.97
ATOM	2112	CB	GLN	A	327	40.650	6.667	21.842	1.00	34.41
ATOM	2113	CG	GLN	A	327	40.770	5.749	23.060	1.00	38.96
ATOM	2114	CD	GLN	A	327	39.443	5.546	23.778	1.00	40.61
ATOM	2115	OE1	GLN	A	327	39.410	5.223	25.002	1.00	42.73
ATOM	2116	NE2	GLN	A	327	38.344	5.714	23.053	1.00	42.75
ATOM	2117	N	LEU	A	328	41.814	9.581	22.394	1.00	28.01
ATOM	2118	CA	LEU	A	328	42.695	10.663	21.964	1.00	28.64
ATOM	2119	C	LEU	A	328	43.889	10.100	21.219	1.00	27.50
ATOM	2120	O	LEU	A	328	44.207	8.873	21.317	1.00	27.23
ATOM	2121	CB	LEU	A	328	43.177	11.467	23.180	1.00	29.39
ATOM	2122	CG	LEU	A	328	43.924	10.735	24.304	1.00	31.09
ATOM	2123	CD1	LEU	A	328	45.298	10.283	23.831	1.00	31.75
ATOM	2124	CD2	LEU	A	328	44.074	11.669	25.498	1.00	31.12
ATOM	2125	N	VAL	A	329	44.539	10.961	20.449	1.00	25.26
ATOM	2126	CA	VAL	A	329	45.748	10.583	19.722	1.00	23.64
ATOM	2127	C	VAL	A	329	46.779	11.593	20.203	1.00	23.76
ATOM	2128	O	VAL	A	329	46.431	12.786	20.476	1.00	21.96
ATOM	2129	CB	VAL	A	329	45.560	10.675	18.194	1.00	23.82
ATOM	2130	CG1	VAL	A	329	45.100	12.070	17.794	1.00	23.64
ATOM	2131	CG2	VAL	A	329	46.866	10.317	17.501	1.00	23.70
ATOM	2132	N	CYS	A	330	48.025	11.157	20.344	1.00	23.69
ATOM	2133	CA	CYS	A	330	49.088	12.046	20.830	1.00	24.17
ATOM	2134	C	CYS	A	330	50.315	12.060	19.937	1.00	23.87
ATOM	2135	O	CYS	A	330	50.592	11.089	19.165	1.00	24.32
ATOM	2136	CB	CYS	A	330	49.548	11.633	22.228	1.00	24.93
ATOM	2137	SG	CYS	A	330	48.353	11.638	23.608	1.00	29.07
ATOM	2138	N	TRP	A	331	51.069	13.144	20.047	1.00	22.66
ATOM	2139	CA	TRP	A	331	52.306	13.318	19.281	1.00	22.40
ATOM	2140	C	TRP	A	331	53.333	13.972	20.177	1.00	22.22
ATOM	2141	O	TRP	A	331	52.979	14.698	21.154	1.00	21.57
ATOM	2142	CB	TRP	A	331	52.069	14.207	18.064	1.00	21.16
ATOM	2143	CG	TRP	A	331	51.345	13.524	16.959	1.00	19.61
ATOM	2144	CD1	TRP	A	331	51.868	12.634	16.067	1.00	18.33
ATOM	2145	CD2	TRP	A	331	49.966	13.684	16.606	1.00	18.42
ATOM	2146	NE1	TRP	A	331	50.902	12.233	15.177	1.00	17.37
ATOM	2147	CE2	TRP	A	331	49.721	12.862	15.488	1.00	18.60
ATOM	2148	CE3	TRP	A	331	48.911	14.446	17.130	1.00	19.20
ATOM	2149	CZ2	TRP	A	331	48.467	12.778	14.874	1.00	17.86
ATOM	2150	CZ3	TRP	A	331	47.659	14.364	16.521	1.00	19.94
ATOM	2151	CH2	TRP	A	331	47.450	13.535	15.406	1.00	19.08
ATOM	2152	N	GLN	A	332	54.598	13.730	19.873	1.00	23.04
ATOM	2153	CA	GLN	A	332	55.689	14.321	20.648	1.00	25.14
ATOM	2154	C	GLN	A	332	55.490	15.836	20.594	1.00	23.64
ATOM	2155	O	GLN	A	332	55.066	16.397	19.533	1.00	23.11
ATOM	2156	CB	GLN	A	332	57.020	13.937	20.015	1.00	27.80
ATOM	2157	CG	GLN	A	332	58.171	13.877	20.982	1.00	33.30
ATOM	2158	CD	GLN	A	332	59.450	13.445	20.305	1.00	35.55
ATOM	2159	OE1	GLN	A	332	60.060	14.224	19.507	1.00	36.94
ATOM	2160	NE2	GLN	A	332	59.879	12.217	20.579	1.00	36.57
ATOM	2161	N	ALA	A	333	55.778	16.506	21.704	1.00	22.79
ATOM	2162	CA	ALA	A	333	55.618	17.977	21.820	1.00	21.04
ATOM	2163	C	ALA	A	333	55.936	18.759	20.552	1.00	19.77
ATOM	2164	O	ALA	A	333	57.076	18.671	19.997	1.00	19.85
ATOM	2165	CB	ALA	A	333	56.475	18.499	22.971	1.00	21.00
ATOM	2166	N	GLY	A	334	54.949	19.515	20.083	1.00	17.64

ATOM	2167	CA	GLY	A	334	55.123	20.340	18.903	1.00	16.89
ATOM	2168	C	GLY	A	334	55.205	19.663	17.548	1.00	17.61
ATOM	2169	O	GLY	A	334	55.403	20.370	16.512	1.00	17.50
ATOM	2170	N	THR	A	335	55.060	18.343	17.490	1.00	16.55
ATOM	2171	CA	THR	A	335	55.146	17.648	16.182	1.00	17.58
ATOM	2172	C	THR	A	335	53.802	17.260	15.557	1.00	16.83
ATOM	2173	O	THR	A	335	53.761	16.408	14.618	1.00	17.71
ATOM	2174	CB	THR	A	335	56.017	16.377	16.275	1.00	17.76
ATOM	2175	OG1	THR	A	335	55.361	15.401	17.095	1.00	17.56
ATOM	2176	CG2	THR	A	335	57.373	16.710	16.884	1.00	17.23
ATOM	2177	N	THR	A	336	52.707	17.842	16.037	1.00	16.75
ATOM	2178	CA	THR	A	336	51.373	17.527	15.460	1.00	16.56
ATOM	2179	C	THR	A	336	51.473	17.752	13.952	1.00	16.24
ATOM	2180	O	THR	A	336	51.821	18.868	13.487	1.00	16.30
ATOM	2181	CB	THR	A	336	50.267	18.437	16.030	1.00	17.05
ATOM	2182	OG1	THR	A	336	50.181	18.255	17.451	1.00	17.15
ATOM	2183	CG2	THR	A	336	48.917	18.096	15.401	1.00	16.72
ATOM	2184	N	PRO	A	337	51.182	16.718	13.157	1.00	15.50
ATOM	2185	CA	PRO	A	337	51.254	16.820	11.699	1.00	14.87
ATOM	2186	C	PRO	A	337	50.006	17.444	11.082	1.00	14.56
ATOM	2187	O	PRO	A	337	49.310	16.800	10.249	1.00	14.49
ATOM	2188	CB	PRO	A	337	51.448	15.369	11.281	1.00	15.18
ATOM	2189	CG	PRO	A	337	50.520	14.657	12.238	1.00	16.05
ATOM	2190	CD	PRO	A	337	50.784	15.359	13.572	1.00	15.54
ATOM	2191	N	TRP	A	338	49.713	18.682	11.470	1.00	14.89
ATOM	2192	CA	TRP	A	338	48.535	19.415	10.956	1.00	14.85
ATOM	2193	C	TRP	A	338	48.339	19.304	9.445	1.00	14.87
ATOM	2194	O	TRP	A	338	47.194	19.048	8.966	1.00	17.13
ATOM	2195	CB	TRP	A	338	48.639	20.899	11.313	1.00	13.77
ATOM	2196	CG	TRP	A	338	48.784	21.176	12.767	1.00	15.11
ATOM	2197	CD1	TRP	A	338	49.897	21.652	13.411	1.00	14.78
ATOM	2198	CD2	TRP	A	338	47.780	21.011	13.771	1.00	14.17
ATOM	2199	NE1	TRP	A	338	49.641	21.794	14.756	1.00	14.64
ATOM	2200	CE2	TRP	A	338	48.348	21.407	15.003	1.00	14.35
ATOM	2201	CE3	TRP	A	338	46.451	20.566	13.751	1.00	14.31
ATOM	2202	CZ2	TRP	A	338	47.635	21.371	16.202	1.00	14.86
ATOM	2203	CZ3	TRP	A	338	45.744	20.530	14.945	1.00	16.02
ATOM	2204	CH2	TRP	A	338	46.339	20.932	16.154	1.00	14.77
ATOM	2205	N	ASN	A	339	49.414	19.486	8.682	1.00	13.22
ATOM	2206	CA	ASN	A	339	49.319	19.449	7.203	1.00	12.87
ATOM	2207	C	ASN	A	339	48.674	18.208	6.608	1.00	12.01
ATOM	2208	O	ASN	A	339	48.061	18.288	5.508	1.00	13.99
ATOM	2209	CB	ASN	A	339	50.699	19.649	6.552	1.00	12.61
ATOM	2210	CG	ASN	A	339	51.576	18.404	6.627	1.00	15.28
ATOM	2211	OD1	ASN	A	339	52.290	18.174	7.648	1.00	16.29
ATOM	2212	ND2	ASN	A	339	51.541	17.584	5.578	1.00	12.93
ATOM	2213	N	ILE	A	340	48.774	17.064	7.276	1.00	12.88
ATOM	2214	CA	ILE	A	340	48.171	15.831	6.698	1.00	12.98
ATOM	2215	C	ILE	A	340	46.655	15.864	6.794	1.00	12.80
ATOM	2216	O	ILE	A	340	45.944	15.237	5.959	1.00	12.80
ATOM	2217	CB	ILE	A	340	48.667	14.545	7.400	1.00	14.79
ATOM	2218	CG1	ILE	A	340	48.142	14.512	8.833	1.00	14.91
ATOM	2219	CG2	ILE	A	340	50.194	14.483	7.372	1.00	12.38
ATOM	2220	CD1	ILE	A	340	48.177	13.142	9.454	1.00	17.42
ATOM	2221	N	PHE	A	341	46.138	16.577	7.790	1.00	13.19
ATOM	2222	CA	PHE	A	341	44.677	16.689	7.972	1.00	13.87
ATOM	2223	C	PHE	A	341	44.143	17.741	7.006	1.00	13.37
ATOM	2224	O	PHE	A	341	44.787	18.812	6.798	1.00	12.72
ATOM	2225	CB	PHE	A	341	44.354	17.087	9.410	1.00	13.10
ATOM	2226	CG	PHE	A	341	44.685	16.027	10.429	1.00	13.55
ATOM	2227	CD1	PHE	A	341	43.817	14.960	10.654	1.00	13.48
ATOM	2228	CD2	PHE	A	341	45.861	16.104	11.171	1.00	12.12

ATOM	2229	CE1	PHE	A	341	44.115	13.984	11.607	1.00	13.44
ATOM	2230	CE2	PHE	A	341	46.172	15.136	12.127	1.00	14.31
ATOM	2231	CZ	PHE	A	341	45.298	14.074	12.346	1.00	13.92
ATOM	2232	N	PRO	A	342	42.975	17.484	6.402	1.00	12.78
ATOM	2233	CA	PRO	A	342	42.357	18.413	5.448	1.00	12.17
ATOM	2234	C	PRO	A	342	41.565	19.544	6.100	1.00	12.90
ATOM	2235	O	PRO	A	342	41.168	19.465	7.309	1.00	12.52
ATOM	2236	CB	PRO	A	342	41.447	17.502	4.638	1.00	10.18
ATOM	2237	CG	PRO	A	342	40.920	16.570	5.714	1.00	11.48
ATOM	2238	CD	PRO	A	342	42.180	16.244	6.523	1.00	12.10
ATOM	2239	N	VAL	A	343	41.342	20.609	5.342	1.00	12.27
ATOM	2240	CA	VAL	A	343	40.528	21.712	5.851	1.00	10.51
ATOM	2241	C	VAL	A	343	39.101	21.281	5.521	1.00	12.41
ATOM	2242	O	VAL	A	343	38.878	20.401	4.632	1.00	10.45
ATOM	2243	CB	VAL	A	343	40.838	23.054	5.143	1.00	10.23
ATOM	2244	CG1	VAL	A	343	42.247	23.507	5.488	1.00	8.58
ATOM	2245	CG2	VAL	A	343	40.672	22.914	3.636	1.00	8.08
ATOM	2246	N	ILE	A	344	38.132	21.848	6.224	1.00	13.49
ATOM	2247	CA	ILE	A	344	36.725	21.507	5.991	1.00	13.17
ATOM	2248	C	ILE	A	344	35.989	22.789	5.664	1.00	13.33
ATOM	2249	O	ILE	A	344	36.067	23.795	6.427	1.00	13.12
ATOM	2250	CB	ILE	A	344	36.099	20.859	7.246	1.00	14.77
ATOM	2251	CG1	ILE	A	344	36.776	19.512	7.517	1.00	14.50
ATOM	2252	CG2	ILE	A	344	34.585	20.702	7.060	1.00	13.14
ATOM	2253	CD1	ILE	A	344	36.374	18.875	8.825	1.00	17.73
ATOM	2254	N	SER	A	345	35.292	22.794	4.537	1.00	12.41
ATOM	2255	CA	SER	A	345	34.547	23.982	4.136	1.00	13.41
ATOM	2256	C	SER	A	345	33.051	23.723	4.172	1.00	14.94
ATOM	2257	O	SER	A	345	32.555	22.641	3.721	1.00	14.55
ATOM	2258	CB	SER	A	345	34.967	24.430	2.728	1.00	14.23
ATOM	2259	OG	SER	A	345	36.329	24.834	2.703	1.00	13.57
ATOM	2260	N	LEU	A	346	32.320	24.682	4.725	1.00	13.42
ATOM	2261	CA	LEU	A	346	30.859	24.594	4.796	1.00	14.08
ATOM	2262	C	LEU	A	346	30.320	25.772	4.003	1.00	13.86
ATOM	2263	O	LEU	A	346	30.681	26.956	4.286	1.00	13.52
ATOM	2264	CB	LEU	A	346	30.383	24.674	6.252	1.00	15.83
ATOM	2265	CG	LEU	A	346	30.239	23.372	7.051	1.00	17.74
ATOM	2266	CD1	LEU	A	346	31.455	22.492	6.875	1.00	18.92
ATOM	2267	CD2	LEU	A	346	30.028	23.711	8.521	1.00	19.69
ATOM	2268	N	TYR	A	347	29.496	25.485	3.000	1.00	13.48
ATOM	2269	CA	TYR	A	347	28.894	26.543	2.176	1.00	13.76
ATOM	2270	C	TYR	A	347	27.525	26.864	2.745	1.00	14.58
ATOM	2271	O	TYR	A	347	26.676	25.948	2.979	1.00	13.16
ATOM	2272	CB	TYR	A	347	28.757	26.101	0.716	1.00	14.82
ATOM	2273	CG	TYR	A	347	30.066	26.051	-0.034	1.00	15.10
ATOM	2274	CD1	TYR	A	347	31.022	25.074	0.252	1.00	13.97
ATOM	2275	CD2	TYR	A	347	30.349	26.977	-1.038	1.00	13.98
ATOM	2276	CE1	TYR	A	347	32.228	25.018	-0.447	1.00	14.47
ATOM	2277	CE2	TYR	A	347	31.556	26.930	-1.746	1.00	15.69
ATOM	2278	CZ	TYR	A	347	32.487	25.949	-1.445	1.00	15.09
ATOM	2279	OH	TYR	A	347	33.672	25.895	-2.141	1.00	16.72
ATOM	2280	N	LEU	A	348	27.288	28.145	2.971	1.00	13.86
ATOM	2281	CA	LEU	A	348	26.018	28.593	3.545	1.00	16.70
ATOM	2282	C	LEU	A	348	25.246	29.445	2.559	1.00	17.37
ATOM	2283	O	LEU	A	348	25.856	30.183	1.722	1.00	16.05
ATOM	2284	CB	LEU	A	348	26.292	29.401	4.814	1.00	15.57
ATOM	2285	CG	LEU	A	348	27.019	28.620	5.908	1.00	17.10
ATOM	2286	CD1	LEU	A	348	27.518	29.565	6.985	1.00	15.71
ATOM	2287	CD2	LEU	A	348	26.078	27.580	6.495	1.00	16.92
ATOM	2288	N	MET	A	349	23.922	29.352	2.617	1.00	19.68
ATOM	2289	CA	MET	A	349	23.073	30.167	1.734	1.00	22.78
ATOM	2290	C	MET	A	349	23.384	31.629	2.024	1.00	22.03

ATOM	2291	O	MET	A	349	23.478	32.049	3.222	1.00	20.70
ATOM	2292	CB	MET	A	349	21.594	29.897	2.008	1.00	25.40
ATOM	2293	CG	MET	A	349	20.931	28.954	1.012	1.00	31.18
ATOM	2294	SD	MET	A	349	19.139	28.833	1.272	1.00	37.43
ATOM	2295	CE	MET	A	349	18.697	30.583	1.318	1.00	32.73
ATOM	2296	N	GLY	A	350	23.573	32.414	0.972	1.00	20.81
ATOM	2297	CA	GLY	A	350	23.857	33.824	1.167	1.00	23.50
ATOM	2298	C	GLY	A	350	22.565	34.612	1.280	1.00	24.26
ATOM	2299	O	GLY	A	350	21.450	34.042	1.091	1.00	23.13
ATOM	2300	N	GLU	A	351	22.662	35.899	1.591	1.00	27.25
ATOM	2301	CA	GLU	A	351	21.448	36.734	1.698	1.00	32.00
ATOM	2302	C	GLU	A	351	20.870	36.948	0.306	1.00	33.92
ATOM	2303	O	GLU	A	351	19.620	37.066	0.125	1.00	34.42
ATOM	2304	CB	GLU	A	351	21.774	38.081	2.340	1.00	32.31
ATOM	2305	CG	GLU	A	351	22.012	37.996	3.831	1.00	34.92
ATOM	2306	CD	GLU	A	351	21.916	39.346	4.503	1.00	35.55
ATOM	2307	OE1	GLU	A	351	22.819	40.187	4.293	1.00	36.64
ATOM	2308	OE2	GLU	A	351	20.927	39.567	5.233	1.00	36.29
ATOM	2309	N	VAL	A	352	21.753	37.007	-0.684	1.00	36.98
ATOM	2310	CA	VAL	A	352	21.327	37.181	-2.082	1.00	38.72
ATOM	2311	C	VAL	A	352	20.944	35.809	-2.629	1.00	40.47
ATOM	2312	O	VAL	A	352	21.689	34.799	-2.426	1.00	39.68
ATOM	2313	CB	VAL	A	352	22.456	37.767	-2.939	1.00	38.31
ATOM	2314	CG1	VAL	A	352	21.999	37.892	-4.382	1.00	38.33
ATOM	2315	CG2	VAL	A	352	22.866	39.123	-2.391	1.00	37.93
ATOM	2316	N	THR	A	353	19.806	35.747	-3.314	1.00	42.33
ATOM	2317	CA	THR	A	353	19.300	34.476	-3.882	1.00	43.97
ATOM	2318	C	THR	A	353	20.254	33.832	-4.877	1.00	43.18
ATOM	2319	O	THR	A	353	20.941	34.536	-5.688	1.00	42.65
ATOM	2320	CB	THR	A	353	17.929	34.672	-4.578	1.00	45.29
ATOM	2321	OG1	THR	A	353	18.018	35.743	-5.526	1.00	46.63
ATOM	2322	CG2	THR	A	353	16.849	34.988	-3.551	1.00	46.31
ATOM	2323	N	ASN	A	354	20.307	32.507	-4.839	1.00	42.20
ATOM	2324	CA	ASN	A	354	21.183	31.741	-5.742	1.00	43.39
ATOM	2325	C	ASN	A	354	22.641	32.166	-5.611	1.00	41.22
ATOM	2326	O	ASN	A	354	23.444	32.078	-6.584	1.00	43.04
ATOM	2327	CB	ASN	A	354	20.698	31.887	-7.187	1.00	45.64
ATOM	2328	CG	ASN	A	354	19.467	31.036	-7.474	1.00	47.44
ATOM	2329	OD1	ASN	A	354	18.824	31.163	-8.562	1.00	48.61
ATOM	2330	ND2	ASN	A	354	19.121	30.159	-6.534	1.00	47.73
ATOM	2331	N	GLN	A	355	22.999	32.621	-4.419	1.00	37.62
ATOM	2332	CA	GLN	A	355	24.371	33.042	-4.128	1.00	34.85
ATOM	2333	C	GLN	A	355	24.737	32.475	-2.764	1.00	32.57
ATOM	2334	O	GLN	A	355	23.863	32.388	-1.846	1.00	31.25
ATOM	2335	CB	GLN	A	355	24.459	34.563	-4.105	1.00	35.77
ATOM	2336	CG	GLN	A	355	25.834	35.089	-3.797	1.00	38.04
ATOM	2337	CD	GLN	A	355	25.909	36.590	-3.915	1.00	39.05
ATOM	2338	OE1	GLN	A	355	25.586	37.171	-4.992	1.00	40.57
ATOM	2339	NE2	GLN	A	355	26.331	37.249	-2.844	1.00	39.68
ATOM	2340	N	SER	A	356	25.989	32.071	-2.597	1.00	29.33
ATOM	2341	CA	SER	A	356	26.419	31.514	-1.304	1.00	25.60
ATOM	2342	C	SER	A	356	27.850	31.897	-0.981	1.00	22.66
ATOM	2343	O	SER	A	356	28.580	32.481	-1.833	1.00	21.99
ATOM	2344	CB	SER	A	356	26.313	29.991	-1.318	1.00	25.71
ATOM	2345	OG	SER	A	356	27.449	29.425	-1.945	1.00	24.59
ATOM	2346	N	PHE	A	357	28.267	31.583	0.239	1.00	20.53
ATOM	2347	CA	PHE	A	357	29.639	31.865	0.676	1.00	17.95
ATOM	2348	C	PHE	A	357	30.104	30.643	1.437	1.00	17.15
ATOM	2349	O	PHE	A	357	29.279	29.750	1.784	1.00	17.21
ATOM	2350	CB	PHE	A	357	29.687	33.126	1.550	1.00	17.62
ATOM	2351	CG	PHE	A	357	28.926	33.017	2.850	1.00	17.61
ATOM	2352	CD1	PHE	A	357	29.571	32.625	4.018	1.00	15.09

ATOM	2353	CD2	PHE	A	357	27.577	33.357	2.912	1.00	16.90
ATOM	2354	CE1	PHE	A	357	28.887	32.577	5.229	1.00	14.87
ATOM	2355	CE2	PHE	A	357	26.881	33.312	4.120	1.00	15.64
ATOM	2356	CZ	PHE	A	357	27.538	32.924	5.280	1.00	16.14
ATOM	2357	N	ARG	A	358	31.397	30.545	1.687	1.00	16.29
ATOM	2358	CA	ARG	A	358	31.891	29.383	2.412	1.00	14.04
ATOM	2359	C	ARG	A	358	32.642	29.755	3.664	1.00	14.59
ATOM	2360	O	ARG	A	358	33.237	30.869	3.785	1.00	13.01
ATOM	2361	CB	ARG	A	358	32.784	28.525	1.516	1.00	14.11
ATOM	2362	CG	ARG	A	358	34.084	29.172	1.102	1.00	13.28
ATOM	2363	CD	ARG	A	358	34.809	28.275	0.121	1.00	13.06
ATOM	2364	NE	ARG	A	358	36.090	28.831	-0.291	1.00	14.39
ATOM	2365	CZ	ARG	A	358	36.723	28.489	-1.409	1.00	14.92
ATOM	2366	NH1	ARG	A	358	36.188	27.591	-2.232	1.00	13.71
ATOM	2367	NH2	ARG	A	358	37.888	29.045	-1.701	1.00	12.88
ATOM	2368	N	ILE	A	359	32.612	28.819	4.596	1.00	14.51
ATOM	2369	CA	ILE	A	359	33.268	28.935	5.891	1.00	16.36
ATOM	2370	C	ILE	A	359	34.242	27.762	5.913	1.00	15.41
ATOM	2371	O	ILE	A	359	33.836	26.583	5.675	1.00	15.49
ATOM	2372	CB	ILE	A	359	32.197	28.824	7.001	1.00	17.94
ATOM	2373	CG1	ILE	A	359	31.543	30.190	7.198	1.00	19.68
ATOM	2374	CG2	ILE	A	359	32.766	28.260	8.255	1.00	20.12
ATOM	2375	CD1	ILE	A	359	32.515	31.288	7.500	1.00	22.40
ATOM	2376	N	THR	A	360	35.513	28.046	6.162	1.00	13.01
ATOM	2377	CA	THR	A	360	36.531	26.983	6.167	1.00	14.32
ATOM	2378	C	THR	A	360	37.307	26.894	7.470	1.00	14.04
ATOM	2379	O	THR	A	360	37.892	27.913	7.938	1.00	13.82
ATOM	2380	CB	THR	A	360	37.536	27.202	5.021	1.00	14.49
ATOM	2381	OG1	THR	A	360	36.828	27.286	3.774	1.00	15.69
ATOM	2382	CG2	THR	A	360	38.532	26.053	4.964	1.00	15.11
ATOM	2383	N	ILE	A	361	37.331	25.709	8.074	1.00	13.79
ATOM	2384	CA	ILE	A	361	38.091	25.524	9.330	1.00	17.36
ATOM	2385	C	ILE	A	361	39.241	24.548	9.122	1.00	16.53
ATOM	2386	O	ILE	A	361	39.237	23.717	8.160	1.00	16.37
ATOM	2387	CB	ILE	A	361	37.208	24.982	10.476	1.00	18.15
ATOM	2388	CG1	ILE	A	361	36.608	23.632	10.077	1.00	18.53
ATOM	2389	CG2	ILE	A	361	36.126	25.999	10.830	1.00	18.95
ATOM	2390	CD1	ILE	A	361	35.899	22.937	11.208	1.00	18.19
ATOM	2391	N	LEU	A	362	40.230	24.614	9.998	1.00	17.82
ATOM	2392	CA	LEU	A	362	41.375	23.710	9.876	1.00	18.92
ATOM	2393	C	LEU	A	362	41.412	22.659	10.983	1.00	17.87
ATOM	2394	O	LEU	A	362	40.533	22.654	11.912	1.00	17.21
ATOM	2395	CB	LEU	A	362	42.675	24.525	9.837	1.00	22.47
ATOM	2396	CG	LEU	A	362	42.686	25.974	10.320	1.00	25.03
ATOM	2397	CD1	LEU	A	362	42.945	25.992	11.802	1.00	28.14
ATOM	2398	CD2	LEU	A	362	43.781	26.751	9.623	1.00	25.06
ATOM	2399	N	PRO	A	363	42.380	21.729	10.910	1.00	16.12
ATOM	2400	CA	PRO	A	363	42.507	20.681	11.925	1.00	14.51
ATOM	2401	C	PRO	A	363	42.628	21.325	13.303	1.00	14.50
ATOM	2402	O	PRO	A	363	42.234	20.710	14.339	1.00	13.48
ATOM	2403	CB	PRO	A	363	43.801	19.971	11.534	1.00	15.57
ATOM	2404	CG	PRO	A	363	43.902	20.202	10.076	1.00	16.87
ATOM	2405	CD	PRO	A	363	43.450	21.616	9.903	1.00	14.60
ATOM	2406	N	GLN	A	364	43.178	22.539	13.337	1.00	12.36
ATOM	2407	CA	GLN	A	364	43.357	23.271	14.608	1.00	13.04
ATOM	2408	C	GLN	A	364	42.014	23.557	15.254	1.00	13.41
ATOM	2409	O	GLN	A	364	41.953	23.895	16.467	1.00	12.73
ATOM	2410	CB	GLN	A	364	44.111	24.585	14.392	1.00	12.04
ATOM	2411	CG	GLN	A	364	45.637	24.449	14.304	1.00	11.85
ATOM	2412	CD	GLN	A	364	46.141	24.079	12.919	1.00	11.11
ATOM	2413	OE1	GLN	A	364	47.372	24.211	12.625	1.00	13.65
ATOM	2414	NE2	GLN	A	364	45.245	23.621	12.056	1.00	8.04

ATOM	2415	N	GLN	A	365	40.939	23.446	14.478	1.00	13.30
ATOM	2416	CA	GLN	A	365	39.580	23.657	15.023	1.00	14.36
ATOM	2417	C	GLN	A	365	38.873	22.341	15.339	1.00	14.57
ATOM	2418	O	GLN	A	365	38.312	22.175	16.457	1.00	16.56
ATOM	2419	CB	GLN	A	365	38.691	24.452	14.056	1.00	14.03
ATOM	2420	CG	GLN	A	365	38.816	25.962	14.167	1.00	15.23
ATOM	2421	CD	GLN	A	365	40.073	26.489	13.515	1.00	15.81
ATOM	2422	OE1	GLN	A	365	40.290	26.292	12.282	1.00	15.51
ATOM	2423	NE2	GLN	A	365	40.917	27.158	14.295	1.00	15.82
ATOM	2424	N	TYR	A	366	38.873	21.392	14.406	1.00	14.93
ATOM	2425	CA	TYR	A	366	38.149	20.128	14.673	1.00	15.12
ATOM	2426	C	TYR	A	366	38.914	19.053	15.447	1.00	15.66
ATOM	2427	O	TYR	A	366	38.378	17.930	15.703	1.00	17.42
ATOM	2428	CB	TYR	A	366	37.557	19.567	13.371	1.00	14.28
ATOM	2429	CG	TYR	A	366	38.541	19.107	12.322	1.00	13.05
ATOM	2430	CD1	TYR	A	366	39.228	17.907	12.467	1.00	13.67
ATOM	2431	CD2	TYR	A	366	38.721	19.835	11.145	1.00	13.44
ATOM	2432	CE1	TYR	A	366	40.062	17.431	11.463	1.00	12.91
ATOM	2433	CE2	TYR	A	366	39.555	19.369	10.128	1.00	12.63
ATOM	2434	CZ	TYR	A	366	40.218	18.163	10.294	1.00	13.86
ATOM	2435	OH	TYR	A	366	41.008	17.669	9.287	1.00	12.42
ATOM	2436	N	LEU	A	367	40.144	19.367	15.835	1.00	16.84
ATOM	2437	CA	LEU	A	367	40.966	18.450	16.660	1.00	16.98
ATOM	2438	C	LEU	A	367	40.996	19.161	18.017	1.00	17.50
ATOM	2439	O	LEU	A	367	41.662	20.224	18.172	1.00	16.40
ATOM	2440	CB	LEU	A	367	42.382	18.324	16.088	1.00	17.44
ATOM	2441	CG	LEU	A	367	42.764	16.991	15.429	1.00	18.54
ATOM	2442	CD1	LEU	A	367	41.681	16.534	14.482	1.00	17.60
ATOM	2443	CD2	LEU	A	367	44.091	17.143	14.700	1.00	17.38
ATOM	2444	N	ARG	A	368	40.270	18.624	18.990	1.00	17.06
ATOM	2445	CA	ARG	A	368	40.192	19.253	20.326	1.00	17.22
ATOM	2446	C	ARG	A	368	41.341	18.874	21.243	1.00	16.52
ATOM	2447	O	ARG	A	368	41.554	17.662	21.538	1.00	16.19
ATOM	2448	CB	ARG	A	368	38.879	18.871	21.009	1.00	16.02
ATOM	2449	CG	ARG	A	368	38.050	20.055	21.444	1.00	19.09
ATOM	2450	CD	ARG	A	368	37.415	19.811	22.792	1.00	17.88
ATOM	2451	NE	ARG	A	368	36.840	18.474	22.906	1.00	17.20
ATOM	2452	CZ	ARG	A	368	36.775	17.806	24.053	1.00	18.65
ATOM	2453	NH1	ARG	A	368	37.247	18.361	25.164	1.00	18.77
ATOM	2454	NH2	ARG	A	368	36.258	16.584	24.095	1.00	17.53
ATOM	2455	N	PRO	A	369	42.100	19.867	21.722	1.00	17.88
ATOM	2456	CA	PRO	A	369	43.220	19.558	22.615	1.00	19.69
ATOM	2457	C	PRO	A	369	42.744	19.067	23.969	1.00	22.16
ATOM	2458	O	PRO	A	369	41.786	19.645	24.575	1.00	20.49
ATOM	2459	CB	PRO	A	369	43.983	20.883	22.700	1.00	20.03
ATOM	2460	CG	PRO	A	369	42.932	21.911	22.429	1.00	19.96
ATOM	2461	CD	PRO	A	369	42.122	21.285	21.320	1.00	17.42
ATOM	2462	N	VAL	A	370	43.376	18.001	24.444	1.00	23.75
ATOM	2463	CA	VAL	A	370	43.040	17.399	25.747	1.00	27.84
ATOM	2464	C	VAL	A	370	44.332	16.921	26.394	1.00	30.26
ATOM	2465	O	VAL	A	370	45.321	16.577	25.682	1.00	30.79
ATOM	2466	CB	VAL	A	370	42.093	16.197	25.577	1.00	26.52
ATOM	2467	CG1	VAL	A	370	40.771	16.654	24.989	1.00	26.57
ATOM	2468	CG2	VAL	A	370	42.737	15.160	24.669	1.00	26.53
ATOM	2469	N	GLU	A	371	44.361	16.891	27.719	1.00	35.50
ATOM	2470	CA	GLU	A	371	45.574	16.450	28.426	1.00	40.60
ATOM	2471	C	GLU	A	371	45.800	14.963	28.235	1.00	42.42
ATOM	2472	O	GLU	A	371	44.832	14.138	28.321	1.00	41.89
ATOM	2473	CB	GLU	A	371	45.472	16.758	29.921	1.00	43.12
ATOM	2474	CG	GLU	A	371	46.603	17.634	30.443	1.00	47.33
ATOM	2475	CD	GLU	A	371	47.954	17.245	29.864	1.00	49.98
ATOM	2476	OE1	GLU	A	371	48.264	16.036	29.818	1.00	51.63

ATOM	2477	OE2	GLU	A	371	48.710	18.151	29.456	1.00	51.00
ATOM	2478	N	ASP	A	372	47.046	14.596	27.960	1.00	45.77
ATOM	2479	CA	ASP	A	372	47.396	13.182	27.774	1.00	49.75
ATOM	2480	C	ASP	A	372	46.889	12.468	29.014	1.00	52.41
ATOM	2481	O	ASP	A	372	47.090	12.966	30.165	1.00	52.32
ATOM	2482	CB	ASP	A	372	48.913	13.015	27.665	1.00	50.28
ATOM	2483	CG	ASP	A	372	49.323	11.587	27.333	1.00	51.15
ATOM	2484	OD1	ASP	A	372	50.541	11.323	27.246	1.00	51.32
ATOM	2485	OD2	ASP	A	372	48.429	10.729	27.156	1.00	50.76
ATOM	2486	N	VAL	A	373	46.217	11.340	28.819	1.00	55.35
ATOM	2487	CA	VAL	A	373	45.688	10.570	29.956	1.00	58.73
ATOM	2488	C	VAL	A	373	46.850	10.213	30.896	1.00	60.04
ATOM	2489	O	VAL	A	373	47.465	9.105	30.817	1.00	60.06
ATOM	2490	CB	VAL	A	373	44.901	9.313	29.433	1.00	59.43
ATOM	2491	CG1	VAL	A	373	45.292	8.044	30.176	1.00	59.64
ATOM	2492	CG2	VAL	A	373	43.402	9.556	29.597	1.00	59.89
ATOM	2493	N	ALA	A	374	47.187	11.169	31.759	1.00	61.58
ATOM	2494	CA	ALA	A	374	48.277	11.020	32.755	1.00	61.52
ATOM	2495	C	ALA	A	374	49.709	11.205	32.233	1.00	61.38
ATOM	2496	O	ALA	A	374	50.104	10.633	31.169	1.00	60.95
ATOM	2497	CB	ALA	A	374	48.155	9.668	33.455	1.00	62.66
ATOM	2498	N	THR	A	375	50.477	12.002	32.977	1.00	61.03
ATOM	2499	CA	THR	A	375	51.919	12.320	32.715	1.00	60.30
ATOM	2500	C	THR	A	375	52.401	12.358	31.269	1.00	58.41
ATOM	2501	O	THR	A	375	52.361	11.308	30.555	1.00	59.21
ATOM	2502	CB	THR	A	375	52.838	11.327	33.455	1.00	61.35
ATOM	2503	OG1	THR	A	375	52.302	11.049	34.756	1.00	62.26
ATOM	2504	CG2	THR	A	375	54.237	11.912	33.599	1.00	61.47
ATOM	2505	N	SER	A	376	52.892	13.520	30.833	1.00	55.18
ATOM	2506	CA	SER	A	376	53.407	13.683	29.445	1.00	51.40
ATOM	2507	C	SER	A	376	53.538	15.132	28.981	1.00	48.79
ATOM	2508	O	SER	A	376	52.887	16.067	29.540	1.00	48.19
ATOM	2509	CB	SER	A	376	52.502	12.943	28.456	1.00	51.90
ATOM	2510	OG	SER	A	376	52.880	13.193	27.115	1.00	51.94
ATOM	2511	N	GLN	A	377	54.373	15.333	27.968	1.00	44.88
ATOM	2512	CA	GLN	A	377	54.576	16.664	27.367	1.00	41.28
ATOM	2513	C	GLN	A	377	54.106	16.580	25.923	1.00	37.22
ATOM	2514	O	GLN	A	377	54.380	17.489	25.081	1.00	35.23
ATOM	2515	CB	GLN	A	377	56.048	17.062	27.425	1.00	43.59
ATOM	2516	CG	GLN	A	377	56.468	17.585	28.789	1.00	46.22
ATOM	2517	CD	GLN	A	377	57.955	17.831	28.886	1.00	47.12
ATOM	2518	OE1	GLN	A	377	58.710	17.710	27.867	1.00	48.44
ATOM	2519	NE2	GLN	A	377	58.414	18.177	30.081	1.00	48.23
ATOM	2520	N	ASP	A	378	53.399	15.499	25.618	1.00	31.89
ATOM	2521	CA	ASP	A	378	52.866	15.289	24.263	1.00	28.31
ATOM	2522	C	ASP	A	378	51.663	16.183	24.034	1.00	25.36
ATOM	2523	O	ASP	A	378	50.958	16.590	25.004	1.00	22.58
ATOM	2524	CB	ASP	A	378	52.422	13.835	24.072	1.00	28.64
ATOM	2525	CG	ASP	A	378	53.582	12.867	23.998	1.00	29.19
ATOM	2526	OD1	ASP	A	378	54.746	13.316	23.948	1.00	30.91
ATOM	2527	OD2	ASP	A	378	53.323	11.647	23.981	1.00	30.50
ATOM	2528	N	ASP	A	379	51.415	16.513	22.776	1.00	23.06
ATOM	2529	CA	ASP	A	379	50.236	17.317	22.436	1.00	22.51
ATOM	2530	C	ASP	A	379	49.220	16.294	21.964	1.00	21.46
ATOM	2531	O	ASP	A	379	49.436	15.581	20.945	1.00	19.87
ATOM	2532	CB	ASP	A	379	50.570	18.335	21.346	1.00	21.72
ATOM	2533	CG	ASP	A	379	51.557	19.377	21.829	1.00	23.29
ATOM	2534	OD1	ASP	A	379	51.434	19.786	23.005	1.00	23.00
ATOM	2535	OD2	ASP	A	379	52.446	19.789	21.052	1.00	23.50
ATOM	2536	N	CYS	A	380	48.128	16.182	22.706	1.00	20.99
ATOM	2537	CA	CYS	A	380	47.082	15.201	22.393	1.00	20.40
ATOM	2538	C	CYS	A	380	45.769	15.865	22.013	1.00	19.94

ATOM	2539	O	CYS	A	380	45.489	17.038	22.417	1.00	18.77
ATOM	2540	CB	CYS	A	380	46.867	14.292	23.596	1.00	23.14
ATOM	2541	SG	CYS	A	380	48.368	13.550	24.327	1.00	25.25
ATOM	2542	N	TYR	A	381	44.947	15.140	21.255	1.00	18.49
ATOM	2543	CA	TYR	A	381	43.656	15.681	20.785	1.00	17.31
ATOM	2544	C	TYR	A	381	42.595	14.610	20.602	1.00	17.45
ATOM	2545	O	TYR	A	381	42.890	13.376	20.532	1.00	16.46
ATOM	2546	CB	TYR	A	381	43.833	16.370	19.427	1.00	15.47
ATOM	2547	CG	TYR	A	381	45.034	17.275	19.314	1.00	14.93
ATOM	2548	CD1	TYR	A	381	44.899	18.659	19.408	1.00	14.20
ATOM	2549	CD2	TYR	A	381	46.311	16.746	19.118	1.00	14.17
ATOM	2550	CE1	TYR	A	381	46.009	19.499	19.307	1.00	14.66
ATOM	2551	CE2	TYR	A	381	47.431	17.576	19.021	1.00	15.73
ATOM	2552	CZ	TYR	A	381	47.272	18.952	19.113	1.00	16.02
ATOM	2553	OH	TYR	A	381	48.369	19.785	18.994	1.00	15.32
ATOM	2554	N	LYS	A	382	41.356	15.066	20.506	1.00	18.35
ATOM	2555	CA	LYS	A	382	40.218	14.174	20.248	1.00	20.26
ATOM	2556	C	LYS	A	382	39.555	14.695	18.981	1.00	19.31
ATOM	2557	O	LYS	A	382	39.575	15.941	18.704	1.00	19.65
ATOM	2558	CB	LYS	A	382	39.221	14.204	21.404	1.00	21.74
ATOM	2559	CG	LYS	A	382	39.632	13.348	22.585	1.00	25.42
ATOM	2560	CD	LYS	A	382	38.509	13.266	23.602	1.00	27.59
ATOM	2561	CE	LYS	A	382	38.878	12.342	24.759	1.00	29.84
ATOM	2562	NZ	LYS	A	382	37.779	12.246	25.761	1.00	31.22
ATOM	2563	N	PHE	A	383	38.994	13.786	18.192	1.00	18.55
ATOM	2564	CA	PHE	A	383	38.298	14.165	16.942	1.00	16.97
ATOM	2565	C	PHE	A	383	36.992	14.823	17.375	1.00	16.22
ATOM	2566	O	PHE	A	383	36.079	14.138	17.908	1.00	13.73
ATOM	2567	CB	PHE	A	383	38.026	12.907	16.110	1.00	16.57
ATOM	2568	CG	PHE	A	383	37.447	13.182	14.750	1.00	16.49
ATOM	2569	CD1	PHE	A	383	38.052	14.091	13.890	1.00	14.48
ATOM	2570	CD2	PHE	A	383	36.319	12.489	14.308	1.00	15.06
ATOM	2571	CE1	PHE	A	383	37.542	14.306	12.606	1.00	16.02
ATOM	2572	CE2	PHE	A	383	35.807	12.696	13.029	1.00	15.64
ATOM	2573	CZ	PHE	A	383	36.419	13.603	12.176	1.00	15.10
ATOM	2574	N	ALA	A	384	36.885	16.134	17.173	1.00	16.28
ATOM	2575	CA	ALA	A	384	35.675	16.893	17.586	1.00	15.54
ATOM	2576	C	ALA	A	384	34.549	16.931	16.559	1.00	15.46
ATOM	2577	O	ALA	A	384	33.768	17.931	16.487	1.00	15.60
ATOM	2578	CB	ALA	A	384	36.061	18.316	17.987	1.00	14.96
ATOM	2579	N	ILE	A	385	34.451	15.888	15.745	1.00	14.66
ATOM	2580	CA	ILE	A	385	33.356	15.792	14.763	1.00	13.45
ATOM	2581	C	ILE	A	385	32.651	14.487	15.093	1.00	14.39
ATOM	2582	O	ILE	A	385	33.303	13.410	15.179	1.00	12.37
ATOM	2583	CB	ILE	A	385	33.862	15.724	13.315	1.00	12.54
ATOM	2584	CG1	ILE	A	385	34.696	16.959	12.988	1.00	13.08
ATOM	2585	CG2	ILE	A	385	32.675	15.655	12.367	1.00	12.56
ATOM	2586	CD1	ILE	A	385	35.178	17.003	11.549	1.00	10.74
ATOM	2587	N	SER	A	386	31.343	14.543	15.297	1.00	14.95
ATOM	2588	CA	SER	A	386	30.605	13.319	15.637	1.00	16.99
ATOM	2589	C	SER	A	386	29.275	13.221	14.918	1.00	17.48
ATOM	2590	O	SER	A	386	28.795	14.207	14.279	1.00	18.09
ATOM	2591	CB	SER	A	386	30.385	13.240	17.151	1.00	16.69
ATOM	2592	OG	SER	A	386	29.630	14.345	17.616	1.00	16.81
ATOM	2593	N	GLN	A	387	28.673	12.044	15.016	1.00	19.86
ATOM	2594	CA	GLN	A	387	27.384	11.748	14.376	1.00	23.09
ATOM	2595	C	GLN	A	387	26.209	12.317	15.160	1.00	22.61
ATOM	2596	O	GLN	A	387	26.221	12.363	16.427	1.00	22.90
ATOM	2597	CB	GLN	A	387	27.222	10.234	14.247	1.00	24.53
ATOM	2598	CG	GLN	A	387	26.035	9.795	13.411	1.00	28.94
ATOM	2599	CD	GLN	A	387	25.971	8.286	13.272	1.00	30.39
ATOM	2600	OE1	GLN	A	387	27.013	7.619	12.999	1.00	31.54

ATOM	2601	NE2	GLN	A	387	24.782	7.721	13.441	1.00	32.07
ATOM	2602	N	SER	A	388	25.186	12.743	14.434	1.00	21.60
ATOM	2603	CA	SER	A	388	23.981	13.306	15.055	1.00	21.59
ATOM	2604	C	SER	A	388	22.728	12.711	14.429	1.00	22.68
ATOM	2605	O	SER	A	388	22.707	12.380	13.203	1.00	23.08
ATOM	2606	CB	SER	A	388	23.959	14.824	14.871	1.00	19.88
ATOM	2607	OG	SER	A	388	22.661	15.342	15.112	1.00	19.18
ATOM	2608	N	SER	A	389	21.681	12.551	15.227	1.00	23.51
ATOM	2609	CA	SER	A	389	20.405	12.024	14.690	1.00	24.44
ATOM	2610	C	SER	A	389	19.391	13.167	14.708	1.00	23.83
ATOM	2611	O	SER	A	389	18.181	12.973	14.385	1.00	23.81
ATOM	2612	CB	SER	A	389	19.902	10.847	15.534	1.00	25.63
ATOM	2613	OG	SER	A	389	19.681	11.235	16.881	1.00	27.65
ATOM	2614	N	THR	A	390	19.861	14.360	15.066	1.00	22.66
ATOM	2615	CA	THR	A	390	18.984	15.553	15.127	1.00	22.60
ATOM	2616	C	THR	A	390	19.471	16.709	14.260	1.00	21.12
ATOM	2617	O	THR	A	390	19.272	17.910	14.608	1.00	21.35
ATOM	2618	CB	THR	A	390	18.825	16.052	16.577	1.00	23.02
ATOM	2619	OG1	THR	A	390	20.117	16.288	17.150	1.00	24.55
ATOM	2620	CG2	THR	A	390	18.079	15.010	17.413	1.00	23.83
ATOM	2621	N	GLY	A	391	20.093	16.381	13.136	1.00	19.75
ATOM	2622	CA	GLY	A	391	20.573	17.410	12.237	1.00	16.88
ATOM	2623	C	GLY	A	391	21.982	17.891	12.526	1.00	17.24
ATOM	2624	O	GLY	A	391	22.672	17.402	13.472	1.00	16.27
ATOM	2625	N	THR	A	392	22.427	18.851	11.730	1.00	14.99
ATOM	2626	CA	THR	A	392	23.773	19.423	11.880	1.00	14.81
ATOM	2627	C	THR	A	392	23.841	20.514	12.938	1.00	14.47
ATOM	2628	O	THR	A	392	22.949	21.409	13.012	1.00	16.11
ATOM	2629	CB	THR	A	392	24.266	20.062	10.564	1.00	12.95
ATOM	2630	OG1	THR	A	392	24.494	19.043	9.588	1.00	14.51
ATOM	2631	CG2	THR	A	392	25.572	20.839	10.800	1.00	14.09
ATOM	2632	N	VAL	A	393	24.857	20.458	13.779	1.00	13.06
ATOM	2633	CA	VAL	A	393	25.027	21.534	14.746	1.00	15.07
ATOM	2634	C	VAL	A	393	26.462	22.033	14.684	1.00	15.47
ATOM	2635	O	VAL	A	393	27.450	21.265	14.908	1.00	16.85
ATOM	2636	CB	VAL	A	393	24.619	21.128	16.201	1.00	16.35
ATOM	2637	CG1	VAL	A	393	24.559	19.624	16.348	1.00	15.06
ATOM	2638	CG2	VAL	A	393	25.566	21.766	17.210	1.00	13.79
ATOM	2639	N	MET	A	394	26.592	23.298	14.312	1.00	15.41
ATOM	2640	CA	MET	A	394	27.900	23.962	14.231	1.00	16.55
ATOM	2641	C	MET	A	394	28.188	24.442	15.647	1.00	16.43
ATOM	2642	O	MET	A	394	27.737	25.553	16.059	1.00	14.99
ATOM	2643	CB	MET	A	394	27.822	25.143	13.264	1.00	16.88
ATOM	2644	CG	MET	A	394	27.607	24.724	11.818	1.00	21.12
ATOM	2645	SD	MET	A	394	27.178	26.083	10.700	1.00	27.34
ATOM	2646	CE	MET	A	394	25.475	25.768	10.522	1.00	26.22
ATOM	2647	N	GLY	A	395	28.909	23.622	16.406	1.00	16.28
ATOM	2648	CA	GLY	A	395	29.220	23.967	17.780	1.00	15.87
ATOM	2649	C	GLY	A	395	30.487	24.775	17.971	1.00	16.72
ATOM	2650	O	GLY	A	395	31.011	25.408	17.005	1.00	16.25
ATOM	2651	N	ALA	A	396	30.989	24.769	19.202	1.00	17.29
ATOM	2652	CA	ALA	A	396	32.211	25.511	19.586	1.00	19.21
ATOM	2653	C	ALA	A	396	33.383	25.310	18.634	1.00	19.63
ATOM	2654	O	ALA	A	396	34.050	26.303	18.223	1.00	22.56
ATOM	2655	CB	ALA	A	396	32.626	25.128	21.013	1.00	16.95
ATOM	2656	N	VAL	A	397	33.661	24.065	18.269	1.00	21.31
ATOM	2657	CA	VAL	A	397	34.792	23.781	17.353	1.00	23.40
ATOM	2658	C	VAL	A	397	34.690	24.592	16.068	1.00	21.89
ATOM	2659	O	VAL	A	397	35.731	25.029	15.496	1.00	24.15
ATOM	2660	CB	VAL	A	397	34.874	22.274	17.012	1.00	24.19
ATOM	2661	CG1	VAL	A	397	35.065	21.480	18.287	1.00	26.91
ATOM	2662	CG2	VAL	A	397	33.623	21.826	16.290	1.00	25.89

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ATOM   2663  N   ILE A 398      33.472  24.805  15.586  1.00 21.78
ATOM   2664  CA  ILE A 398      33.276  25.612  14.359  1.00 21.50
ATOM   2665  C   ILE A 398      33.403  27.086  14.735  1.00 19.91
ATOM   2666  O   ILE A 398      34.222  27.849  14.135  1.00 16.77
ATOM   2667  CB  ILE A 398      31.872  25.390  13.749  1.00 23.48
ATOM   2668  CG1 ILE A 398      31.859  24.113  12.910  1.00 26.70
ATOM   2669  CG2 ILE A 398      31.469  26.596  12.895  1.00 24.67
ATOM   2670  CD1 ILE A 398      32.656  24.223  11.620  1.00 27.64
ATOM   2671  N   MET A 399      32.614  27.492  15.726  1.00 17.64
ATOM   2672  CA  MET A 399      32.594  28.889  16.201  1.00 16.99
ATOM   2673  C   MET A 399      33.951  29.439  16.640  1.00 17.65
ATOM   2674  O   MET A 399      34.202  30.677  16.517  1.00 18.70
ATOM   2675  CB  MET A 399      31.575  29.025  17.331  1.00 15.33
ATOM   2676  CG  MET A 399      30.138  28.800  16.866  1.00 14.30
ATOM   2677  SD  MET A 399      28.891  29.038  18.155  1.00 16.41
ATOM   2678  CE  MET A 399      28.972  30.826  18.388  1.00 10.15
ATOM   2679  N   GLU A 400      34.835  28.579  17.143  1.00 16.09
ATOM   2680  CA  GLU A 400      36.175  29.051  17.580  1.00 16.46
ATOM   2681  C   GLU A 400      36.968  29.576  16.389  1.00 14.50
ATOM   2682  O   GLU A 400      37.971  30.332  16.553  1.00 14.83
ATOM   2683  CB  GLU A 400      36.957  27.919  18.257  1.00 15.95
ATOM   2684  CG  GLU A 400      36.318  27.419  19.540  1.00 18.44
ATOM   2685  CD  GLU A 400      37.156  26.376  20.243  1.00 18.72
ATOM   2686  OE1 GLU A 400      37.771  25.542  19.546  1.00 20.29
ATOM   2687  OE2 GLU A 400      37.186  26.383  21.493  1.00 19.60
ATOM   2688  N   GLY A 401      36.544  29.204  15.190  1.00 13.62
ATOM   2689  CA  GLY A 401      37.246  29.662  14.010  1.00 15.09
ATOM   2690  C   GLY A 401      36.747  31.010  13.533  1.00 16.28
ATOM   2691  O   GLY A 401      37.435  31.693  12.716  1.00 16.14
ATOM   2692  N   PHE A 402      35.591  31.438  14.033  1.00 14.90
ATOM   2693  CA  PHE A 402      35.018  32.712  13.572  1.00 15.01
ATOM   2694  C   PHE A 402      34.378  33.605  14.615  1.00 15.52
ATOM   2695  O   PHE A 402      34.078  33.185  15.777  1.00 16.47
ATOM   2696  CB  PHE A 402      33.966  32.424  12.495  1.00 14.48
ATOM   2697  CG  PHE A 402      34.381  31.364  11.522  1.00 15.64
ATOM   2698  CD1 PHE A 402      34.126  30.021  11.785  1.00 14.91
ATOM   2699  CD2 PHE A 402      35.095  31.700  10.376  1.00 15.20
ATOM   2700  CE1 PHE A 402      34.581  29.027  10.920  1.00 15.18
ATOM   2701  CE2 PHE A 402      35.555  30.717   9.507  1.00 15.72
ATOM   2702  CZ  PHE A 402      35.298  29.376   9.782  1.00 15.12
ATOM   2703  N   TYR A 403      34.168  34.847  14.208  1.00 15.73
ATOM   2704  CA  TYR A 403      33.474  35.837  15.039  1.00 15.81
ATOM   2705  C   TYR A 403      32.071  35.641  14.489  1.00 14.48
ATOM   2706  O   TYR A 403      31.846  35.789  13.250  1.00 15.47
ATOM   2707  CB  TYR A 403      33.977  37.251  14.731  1.00 14.45
ATOM   2708  CG  TYR A 403      33.265  38.340  15.499  1.00 15.22
ATOM   2709  CD1 TYR A 403      32.899  38.152  16.834  1.00 14.85
ATOM   2710  CD2 TYR A 403      33.018  39.584  14.916  1.00 14.28
ATOM   2711  CE1 TYR A 403      32.311  39.175  17.569  1.00 15.25
ATOM   2712  CE2 TYR A 403      32.435  40.617  15.644  1.00 14.12
ATOM   2713  CZ  TYR A 403      32.086  40.406  16.967  1.00 15.72
ATOM   2714  OH  TYR A 403      31.525  41.427  17.697  1.00 18.09
ATOM   2715  N   VAL A 404      31.125  35.286  15.345  1.00 14.70
ATOM   2716  CA  VAL A 404      29.753  35.040  14.854  1.00 14.44
ATOM   2717  C   VAL A 404      28.759  36.079  15.342  1.00 14.92
ATOM   2718  O   VAL A 404      28.552  36.259  16.582  1.00 15.62
ATOM   2719  CB  VAL A 404      29.284  33.629  15.260  1.00 14.39
ATOM   2720  CG1 VAL A 404      27.925  33.323  14.640  1.00 11.90
ATOM   2721  CG2 VAL A 404      30.327  32.603  14.819  1.00 12.73
ATOM   2722  N   VAL A 405      28.136  36.762  14.386  1.00 16.06
ATOM   2723  CA  VAL A 405      27.153  37.822  14.676  1.00 14.31
ATOM   2724  C   VAL A 405      25.717  37.312  14.562  1.00 16.79
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ATOM	2725	O	VAL	A	405	25.238	36.955	13.443	1.00	16.14
ATOM	2726	CB	VAL	A	405	27.318	39.004	13.700	1.00	13.66
ATOM	2727	CG1	VAL	A	405	26.302	40.092	14.021	1.00	12.39
ATOM	2728	CG2	VAL	A	405	28.739	39.547	13.775	1.00	10.80
ATOM	2729	N	PHE	A	406	25.019	37.260	15.691	1.00	16.73
ATOM	2730	CA	PHE	A	406	23.616	36.805	15.685	1.00	16.71
ATOM	2731	C	PHE	A	406	22.755	38.049	15.531	1.00	17.47
ATOM	2732	O	PHE	A	406	22.286	38.654	16.539	1.00	17.39
ATOM	2733	CB	PHE	A	406	23.287	36.053	16.979	1.00	13.96
ATOM	2734	CG	PHE	A	406	24.061	34.765	17.139	1.00	13.82
ATOM	2735	CD1	PHE	A	406	25.398	34.783	17.533	1.00	13.31
ATOM	2736	CD2	PHE	A	406	23.464	33.538	16.863	1.00	12.85
ATOM	2737	CE1	PHE	A	406	26.128	33.601	17.646	1.00	13.23
ATOM	2738	CE2	PHE	A	406	24.185	32.350	16.973	1.00	12.78
ATOM	2739	CZ	PHE	A	406	25.522	32.382	17.367	1.00	12.96
ATOM	2740	N	ASP	A	407	22.566	38.449	14.278	1.00	18.08
ATOM	2741	CA	ASP	A	407	21.785	39.647	13.932	1.00	19.70
ATOM	2742	C	ASP	A	407	20.297	39.316	13.927	1.00	19.73
ATOM	2743	O	ASP	A	407	19.675	39.120	12.837	1.00	18.96
ATOM	2744	CB	ASP	A	407	22.221	40.153	12.552	1.00	22.61
ATOM	2745	CG	ASP	A	407	21.663	41.530	12.223	1.00	24.28
ATOM	2746	OD1	ASP	A	407	20.660	41.935	12.849	1.00	24.12
ATOM	2747	OD2	ASP	A	407	22.225	42.198	11.325	1.00	23.37
ATOM	2748	N	ARG	A	408	19.709	39.245	15.116	1.00	19.72
ATOM	2749	CA	ARG	A	408	18.269	38.928	15.259	1.00	22.01
ATOM	2750	C	ARG	A	408	17.393	39.967	14.557	1.00	21.56
ATOM	2751	O	ARG	A	408	16.386	39.606	13.875	1.00	20.49
ATOM	2752	CB	ARG	A	408	17.909	38.835	16.748	1.00	23.44
ATOM	2753	CG	ARG	A	408	18.670	37.724	17.479	1.00	25.61
ATOM	2754	CD	ARG	A	408	18.838	37.994	18.973	1.00	28.14
ATOM	2755	NE	ARG	A	408	17.843	37.328	19.814	1.00	31.17
ATOM	2756	CZ	ARG	A	408	16.567	37.679	19.887	1.00	32.24
ATOM	2757	NH1	ARG	A	408	16.127	38.693	19.163	1.00	35.70
ATOM	2758	NH2	ARG	A	408	15.735	37.029	20.687	1.00	31.13
ATOM	2759	N	ALA	A	409	17.750	41.241	14.694	1.00	21.10
ATOM	2760	CA	ALA	A	409	16.978	42.329	14.056	1.00	22.43
ATOM	2761	C	ALA	A	409	16.785	42.050	12.571	1.00	22.80
ATOM	2762	O	ALA	A	409	15.646	42.177	12.034	1.00	24.04
ATOM	2763	CB	ALA	A	409	17.689	43.664	14.247	1.00	20.85
ATOM	2764	N	ARG	A	410	17.858	41.664	11.889	1.00	23.89
ATOM	2765	CA	ARG	A	410	17.770	41.374	10.445	1.00	25.07
ATOM	2766	C	ARG	A	410	17.639	39.888	10.119	1.00	24.26
ATOM	2767	O	ARG	A	410	17.908	39.461	8.956	1.00	24.63
ATOM	2768	CB	ARG	A	410	18.987	41.949	9.724	1.00	26.83
ATOM	2769	CG	ARG	A	410	19.025	43.464	9.700	1.00	29.89
ATOM	2770	CD	ARG	A	410	19.326	43.944	8.295	1.00	32.69
ATOM	2771	NE	ARG	A	410	20.590	44.664	8.208	1.00	33.51
ATOM	2772	CZ	ARG	A	410	21.182	44.979	7.062	1.00	34.58
ATOM	2773	NH1	ARG	A	410	20.626	44.631	5.907	1.00	33.99
ATOM	2774	NH2	ARG	A	410	22.328	45.644	7.068	1.00	35.27
ATOM	2775	N	LYS	A	411	17.223	39.091	11.097	1.00	22.77
ATOM	2776	CA	LYS	A	411	17.061	37.630	10.891	1.00	22.97
ATOM	2777	C	LYS	A	411	18.227	37.031	10.104	1.00	21.80
ATOM	2778	O	LYS	A	411	18.015	36.309	9.081	1.00	20.39
ATOM	2779	CB	LYS	A	411	15.761	37.335	10.138	1.00	23.53
ATOM	2780	CG	LYS	A	411	14.491	37.686	10.886	1.00	27.80
ATOM	2781	CD	LYS	A	411	13.270	37.188	10.121	1.00	30.25
ATOM	2782	CE	LYS	A	411	13.337	35.678	9.890	1.00	31.18
ATOM	2783	NZ	LYS	A	411	12.153	35.163	9.142	1.00	34.08
ATOM	2784	N	ARG	A	412	19.449	37.290	10.541	1.00	19.85
ATOM	2785	CA	ARG	A	412	20.607	36.748	9.815	1.00	18.29
ATOM	2786	C	ARG	A	412	21.789	36.505	10.736	1.00	18.54

ATOM	2787	O	ARG	A	412	21.911	37.137	11.837	1.00	18.56
ATOM	2788	CB	ARG	A	412	21.019	37.714	8.703	1.00	18.72
ATOM	2789	CG	ARG	A	412	21.571	39.027	9.239	1.00	18.66
ATOM	2790	CD	ARG	A	412	21.941	39.988	8.127	1.00	18.34
ATOM	2791	NE	ARG	A	412	22.560	41.196	8.662	1.00	19.28
ATOM	2792	CZ	ARG	A	412	23.082	42.163	7.916	1.00	20.03
ATOM	2793	NH1	ARG	A	412	23.059	42.067	6.591	1.00	19.36
ATOM	2794	NH2	ARG	A	412	23.635	43.219	8.496	1.00	19.27
ATOM	2795	N	ILE	A	413	22.668	35.606	10.317	1.00	17.01
ATOM	2796	CA	ILE	A	413	23.865	35.285	11.103	1.00	16.43
ATOM	2797	C	ILE	A	413	25.103	35.576	10.266	1.00	16.20
ATOM	2798	O	ILE	A	413	25.213	35.125	9.084	1.00	17.17
ATOM	2799	CB	ILE	A	413	23.855	33.808	11.533	1.00	16.02
ATOM	2800	CG1	ILE	A	413	22.667	33.562	12.469	1.00	13.92
ATOM	2801	CG2	ILE	A	413	25.168	33.458	12.218	1.00	15.95
ATOM	2802	CD1	ILE	A	413	22.482	32.130	12.862	1.00	14.89
ATOM	2803	N	GLY	A	414	26.028	36.332	10.841	1.00	15.43
ATOM	2804	CA	GLY	A	414	27.243	36.679	10.132	1.00	14.42
ATOM	2805	C	GLY	A	414	28.463	35.899	10.585	1.00	14.91
ATOM	2806	O	GLY	A	414	28.569	35.463	11.779	1.00	12.74
ATOM	2807	N	PHE	A	415	29.392	35.709	9.656	1.00	12.70
ATOM	2808	CA	PHE	A	415	30.638	34.977	9.932	1.00	14.84
ATOM	2809	C	PHE	A	415	31.823	35.766	9.403	1.00	15.05
ATOM	2810	O	PHE	A	415	31.761	36.376	8.291	1.00	17.34
ATOM	2811	CB	PHE	A	415	30.613	33.599	9.256	1.00	13.57
ATOM	2812	CG	PHE	A	415	29.628	32.640	9.860	1.00	13.35
ATOM	2813	CD1	PHE	A	415	30.034	31.710	10.820	1.00	14.56
ATOM	2814	CD2	PHE	A	415	28.296	32.660	9.472	1.00	11.54
ATOM	2815	CE1	PHE	A	415	29.117	30.809	11.383	1.00	13.74
ATOM	2816	CE2	PHE	A	415	27.373	31.768	10.027	1.00	12.67
ATOM	2817	CZ	PHE	A	415	27.787	30.839	10.985	1.00	13.15
ATOM	2818	N	ALA	A	416	32.895	35.779	10.178	1.00	15.11
ATOM	2819	CA	ALA	A	416	34.135	36.470	9.786	1.00	14.57
ATOM	2820	C	ALA	A	416	35.248	35.738	10.515	1.00	14.48
ATOM	2821	O	ALA	A	416	35.027	35.186	11.639	1.00	12.56
ATOM	2822	CB	ALA	A	416	34.095	37.935	10.208	1.00	11.46
ATOM	2823	N	VAL	A	417	36.425	35.692	9.906	1.00	14.71
ATOM	2824	CA	VAL	A	417	37.569	35.011	10.528	1.00	16.80
ATOM	2825	C	VAL	A	417	37.835	35.634	11.892	1.00	18.08
ATOM	2826	O	VAL	A	417	37.922	36.901	12.033	1.00	17.13
ATOM	2827	CB	VAL	A	417	38.824	35.126	9.642	1.00	17.67
ATOM	2828	CG1	VAL	A	417	40.022	34.486	10.333	1.00	16.83
ATOM	2829	CG2	VAL	A	417	38.561	34.441	8.301	1.00	18.32
ATOM	2830	N	SER	A	418	37.953	34.785	12.905	1.00	17.31
ATOM	2831	CA	SER	A	418	38.201	35.271	14.272	1.00	17.62
ATOM	2832	C	SER	A	418	39.637	35.712	14.455	1.00	18.36
ATOM	2833	O	SER	A	418	40.591	35.038	13.963	1.00	19.44
ATOM	2834	CB	SER	A	418	37.882	34.182	15.295	1.00	18.09
ATOM	2835	OG	SER	A	418	38.228	34.617	16.599	1.00	17.42
ATOM	2836	N	ALA	A	419	39.821	36.827	15.150	1.00	17.60
ATOM	2837	CA	ALA	A	419	41.175	37.335	15.410	1.00	18.46
ATOM	2838	C	ALA	A	419	41.877	36.423	16.423	1.00	19.09
ATOM	2839	O	ALA	A	419	43.117	36.553	16.649	1.00	19.60
ATOM	2840	CB	ALA	A	419	41.106	38.772	15.943	1.00	17.70
ATOM	2841	N	CYS	A	420	41.132	35.500	17.032	1.00	19.36
ATOM	2842	CA	CYS	A	420	41.736	34.575	18.029	1.00	20.89
ATOM	2843	C	CYS	A	420	41.677	33.105	17.624	1.00	19.60
ATOM	2844	O	CYS	A	420	41.805	32.202	18.501	1.00	22.74
ATOM	2845	CB	CYS	A	420	41.064	34.734	19.410	1.00	21.69
ATOM	2846	SG	CYS	A	420	39.353	34.096	19.526	1.00	25.02
ATOM	2847	N	HIS	A	421	41.495	32.814	16.342	1.00	17.86
ATOM	2848	CA	HIS	A	421	41.435	31.393	15.933	1.00	17.71

ATOM	2849	C	HIS	A	421	42.834	30.798	15.799	1.00	17.18
ATOM	2850	O	HIS	A	421	43.801	31.495	15.356	1.00	14.17
ATOM	2851	CB	HIS	A	421	40.641	31.236	14.625	1.00	18.65
ATOM	2852	CG	HIS	A	421	41.433	31.504	13.381	1.00	18.77
ATOM	2853	ND1	HIS	A	421	42.114	30.514	12.705	1.00	18.84
ATOM	2854	CD2	HIS	A	421	41.631	32.645	12.678	1.00	18.73
ATOM	2855	CE1	HIS	A	421	42.695	31.032	11.637	1.00	17.98
ATOM	2856	NE2	HIS	A	421	42.418	32.323	11.597	1.00	20.03
ATOM	2857	N	VAL	A	422	42.965	29.533	16.194	1.00	16.96
ATOM	2858	CA	VAL	A	422	44.260	28.816	16.132	1.00	16.89
ATOM	2859	C	VAL	A	422	44.571	28.334	14.719	1.00	17.53
ATOM	2860	O	VAL	A	422	43.678	27.764	14.021	1.00	17.13
ATOM	2861	CB	VAL	A	422	44.257	27.588	17.061	1.00	16.92
ATOM	2862	CG1	VAL	A	422	45.632	26.938	17.063	1.00	15.15
ATOM	2863	CG2	VAL	A	422	43.850	28.004	18.479	1.00	19.33
ATOM	2864	N	HIS	A	423	45.815	28.531	14.291	1.00	16.64
ATOM	2865	CA	HIS	A	423	46.264	28.112	12.940	1.00	16.92
ATOM	2866	C	HIS	A	423	47.792	28.038	12.906	1.00	17.46
ATOM	2867	O	HIS	A	423	48.461	28.105	13.981	1.00	17.20
ATOM	2868	CB	HIS	A	423	45.755	29.111	11.889	1.00	15.85
ATOM	2869	CG	HIS	A	423	46.242	30.512	12.096	1.00	18.62
ATOM	2870	ND1	HIS	A	423	47.390	30.998	11.504	1.00	19.80
ATOM	2871	CD2	HIS	A	423	45.758	31.522	12.857	1.00	17.42
ATOM	2872	CE1	HIS	A	423	47.590	32.245	11.892	1.00	18.22
ATOM	2873	NE2	HIS	A	423	46.615	32.586	12.714	1.00	18.53
ATOM	2874	N	ASP	A	424	48.360	27.869	11.714	1.00	18.00
ATOM	2875	CA	ASP	A	424	49.836	27.817	11.556	1.00	17.75
ATOM	2876	C	ASP	A	424	50.194	28.804	10.453	1.00	18.36
ATOM	2877	O	ASP	A	424	49.294	29.527	9.935	1.00	20.02
ATOM	2878	CB	ASP	A	424	50.305	26.396	11.206	1.00	18.00
ATOM	2879	CG	ASP	A	424	49.545	25.791	10.037	1.00	19.08
ATOM	2880	OD1	ASP	A	424	49.110	24.623	10.149	1.00	18.99
ATOM	2881	OD2	ASP	A	424	49.390	26.473	9.003	1.00	20.46
ATOM	2882	N	GLU	A	425	51.459	28.877	10.063	1.00	17.55
ATOM	2883	CA	GLU	A	425	51.813	29.853	9.015	1.00	18.77
ATOM	2884	C	GLU	A	425	51.497	29.379	7.601	1.00	16.95
ATOM	2885	O	GLU	A	425	51.724	30.131	6.613	1.00	17.24
ATOM	2886	CB	GLU	A	425	53.289	30.239	9.112	1.00	18.65
ATOM	2887	CG	GLU	A	425	54.254	29.150	8.714	1.00	20.84
ATOM	2888	CD	GLU	A	425	55.632	29.697	8.381	1.00	21.89
ATOM	2889	OE1	GLU	A	425	56.481	28.901	7.936	1.00	22.61
ATOM	2890	OE2	GLU	A	425	55.867	30.920	8.559	1.00	22.65
ATOM	2891	N	PHE	A	426	50.955	28.171	7.476	1.00	14.60
ATOM	2892	CA	PHE	A	426	50.619	27.606	6.150	1.00	13.51
ATOM	2893	C	PHE	A	426	49.157	27.767	5.763	1.00	15.14
ATOM	2894	O	PHE	A	426	48.826	27.822	4.540	1.00	16.10
ATOM	2895	CB	PHE	A	426	51.001	26.127	6.109	1.00	14.53
ATOM	2896	CG	PHE	A	426	52.452	25.877	6.400	1.00	14.20
ATOM	2897	CD1	PHE	A	426	53.433	26.244	5.482	1.00	13.59
ATOM	2898	CD2	PHE	A	426	52.841	25.298	7.606	1.00	14.11
ATOM	2899	CE1	PHE	A	426	54.787	26.040	5.762	1.00	14.83
ATOM	2900	CE2	PHE	A	426	54.192	25.087	7.897	1.00	15.49
ATOM	2901	CZ	PHE	A	426	55.167	25.460	6.969	1.00	14.08
ATOM	2902	N	ARG	A	427	48.269	27.827	6.752	1.00	13.77
ATOM	2903	CA	ARG	A	427	46.824	27.985	6.469	1.00	14.89
ATOM	2904	C	ARG	A	427	46.130	28.695	7.615	1.00	15.43
ATOM	2905	O	ARG	A	427	46.630	28.710	8.781	1.00	14.58
ATOM	2906	CB	ARG	A	427	46.132	26.632	6.301	1.00	15.33
ATOM	2907	CG	ARG	A	427	46.959	25.518	5.707	1.00	16.84
ATOM	2908	CD	ARG	A	427	46.645	24.234	6.477	1.00	17.68
ATOM	2909	NE	ARG	A	427	45.994	23.230	5.655	1.00	16.69
ATOM	2910	CZ	ARG	A	427	45.701	21.998	6.062	1.00	15.45

ATOM	2911	NH1	ARG	A	427	45.114	21.159	5.224	1.00 14.20
ATOM	2912	NH2	ARG	A	427	45.981	21.603	7.296	1.00 13.31
ATOM	2913	N	THR	A	428	44.976	29.269	7.317	1.00 15.28
ATOM	2914	CA	THR	A	428	44.180	29.967	8.336	1.00 17.94
ATOM	2915	C	THR	A	428	42.731	29.650	8.041	1.00 16.25
ATOM	2916	O	THR	A	428	42.400	29.165	6.923	1.00 14.77
ATOM	2917	CB	THR	A	428	44.353	31.503	8.249	1.00 18.18
ATOM	2918	OG1	THR	A	428	44.043	31.942	6.921	1.00 20.24
ATOM	2919	CG2	THR	A	428	45.773	31.901	8.583	1.00 19.84
ATOM	2920	N	ALA	A	429	41.860	29.901	9.009	1.00 16.14
ATOM	2921	CA	ALA	A	429	40.423	29.677	8.803	1.00 16.03
ATOM	2922	C	ALA	A	429	40.048	30.739	7.775	1.00 15.66
ATOM	2923	O	ALA	A	429	40.808	31.738	7.574	1.00 14.51
ATOM	2924	CB	ALA	A	429	39.656	29.898	10.105	1.00 17.08
ATOM	2925	N	ALA	A	430	38.920	30.575	7.107	1.00 14.04
ATOM	2926	CA	ALA	A	430	38.556	31.576	6.100	1.00 13.71
ATOM	2927	C	ALA	A	430	37.067	31.706	5.883	1.00 11.98
ATOM	2928	O	ALA	A	430	36.271	30.754	6.166	1.00 12.33
ATOM	2929	CB	ALA	A	430	39.251	31.246	4.762	1.00 12.27
ATOM	2930	N	VAL	A	431	36.671	32.874	5.396	1.00 11.01
ATOM	2931	CA	VAL	A	431	35.260	33.149	5.076	1.00 13.39
ATOM	2932	C	VAL	A	431	35.344	33.773	3.697	1.00 15.69
ATOM	2933	O	VAL	A	431	35.857	34.926	3.533	1.00 17.86
ATOM	2934	CB	VAL	A	431	34.624	34.145	6.056	1.00 11.50
ATOM	2935	CG1	VAL	A	431	33.148	34.294	5.737	1.00 10.61
ATOM	2936	CG2	VAL	A	431	34.818	33.659	7.494	1.00 10.71
ATOM	2937	N	GLU	A	432	34.874	33.048	2.694	1.00 16.74
ATOM	2938	CA	GLU	A	432	34.969	33.544	1.320	1.00 18.65
ATOM	2939	C	GLU	A	432	33.681	33.414	0.530	1.00 18.40
ATOM	2940	O	GLU	A	432	32.794	32.567	0.852	1.00 16.81
ATOM	2941	CB	GLU	A	432	36.097	32.796	0.607	1.00 19.91
ATOM	2942	CG	GLU	A	432	37.460	33.031	1.241	1.00 24.66
ATOM	2943	CD	GLU	A	432	38.466	31.930	0.935	1.00 27.80
ATOM	2944	OE1	GLU	A	432	39.681	32.196	1.051	1.00 30.84
ATOM	2945	OE2	GLU	A	432	38.049	30.799	0.595	1.00 28.87
ATOM	2946	N	GLY	A	433	33.574	34.243	-0.504	1.00 18.95
ATOM	2947	CA	GLY	A	433	32.408	34.244	-1.363	1.00 19.36
ATOM	2948	C	GLY	A	433	32.504	35.385	-2.359	1.00 19.59
ATOM	2949	O	GLY	A	433	33.489	36.173	-2.328	1.00 18.33
ATOM	2950	N	PRO	A	434	31.511	35.539	-3.243	1.00 19.47
ATOM	2951	CA	PRO	A	434	30.345	34.655	-3.285	1.00 19.72
ATOM	2952	C	PRO	A	434	30.485	33.589	-4.353	1.00 19.98
ATOM	2953	O	PRO	A	434	31.382	33.674	-5.235	1.00 22.24
ATOM	2954	CB	PRO	A	434	29.215	35.619	-3.595	1.00 19.80
ATOM	2955	CG	PRO	A	434	29.869	36.517	-4.616	1.00 19.70
ATOM	2956	CD	PRO	A	434	31.261	36.770	-4.018	1.00 19.73
ATOM	2957	N	PHE	A	435	29.624	32.583	-4.290	1.00 21.45
ATOM	2958	CA	PHE	A	435	29.619	31.502	-5.292	1.00 22.31
ATOM	2959	C	PHE	A	435	28.217	31.513	-5.872	1.00 24.39
ATOM	2960	O	PHE	A	435	27.207	31.636	-5.110	1.00 24.58
ATOM	2961	CB	PHE	A	435	29.924	30.155	-4.636	1.00 22.02
ATOM	2962	CG	PHE	A	435	31.215	30.141	-3.876	1.00 20.80
ATOM	2963	CD1	PHE	A	435	31.232	30.392	-2.507	1.00 20.70
ATOM	2964	CD2	PHE	A	435	32.424	29.945	-4.542	1.00 21.70
ATOM	2965	CE1	PHE	A	435	32.432	30.451	-1.809	1.00 20.27
ATOM	2966	CE2	PHE	A	435	33.634	30.003	-3.853	1.00 21.68
ATOM	2967	CZ	PHE	A	435	33.637	30.259	-2.481	1.00 21.51
ATOM	2968	N	VAL	A	436	28.117	31.396	-7.192	1.00 27.02
ATOM	2969	CA	VAL	A	436	26.802	31.438	-7.872	1.00 29.79
ATOM	2970	C	VAL	A	436	26.526	30.219	-8.739	1.00 32.85
ATOM	2971	O	VAL	A	436	25.434	30.120	-9.376	1.00 33.81
ATOM	2972	CB	VAL	A	436	26.702	32.677	-8.787	1.00 28.98

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ATOM   2973  CG1 VAL A 436      26.999  33.944  -7.996  1.00 29.00
ATOM   2974  CG2 VAL A 436      27.678  32.537  -9.947  1.00 28.49
ATOM   2975  N   THR A 437      27.473  29.292  -8.795  1.00 36.05
ATOM   2976  CA  THR A 437      27.305  28.089  -9.638  1.00 39.30
ATOM   2977  C   THR A 437      26.582  26.979  -8.870  1.00 41.99
ATOM   2978  O   THR A 437      26.604  25.775  -9.276  1.00 41.77
ATOM   2979  CB  THR A 437      28.690  27.592 -10.123  1.00 39.02
ATOM   2980  OG1 THR A 437      28.552  26.981 -11.408  1.00 42.51
ATOM   2981  CG2 THR A 437      29.280  26.578  -9.156  1.00 38.10
ATOM   2982  N   LEU A 438      25.908  27.368  -7.794  1.00 45.33
ATOM   2983  CA  LEU A 438      25.199  26.417  -6.901  1.00 49.22
ATOM   2984  C   LEU A 438      23.753  26.016  -7.165  1.00 50.49
ATOM   2985  O   LEU A 438      22.869  26.878  -7.466  1.00 51.99
ATOM   2986  CB  LEU A 438      25.276  26.944  -5.473  1.00 50.30
ATOM   2987  CG  LEU A 438      26.027  28.269  -5.358  1.00 50.73
ATOM   2988  CD1 LEU A 438      25.108  29.457  -5.584  1.00 50.27
ATOM   2989  CD2 LEU A 438      26.629  28.328  -4.001  1.00 51.67
ATOM   2990  N   ASP A 439      23.505  24.715  -7.037  1.00 52.67
ATOM   2991  CA  ASP A 439      22.149  24.128  -7.172  1.00 55.74
ATOM   2992  C   ASP A 439      21.690  24.224  -5.722  1.00 56.96
ATOM   2993  O   ASP A 439      21.757  23.221  -4.945  1.00 57.33
ATOM   2994  CB  ASP A 439      22.240  22.657  -7.586  1.00 56.39
ATOM   2995  CG  ASP A 439      20.879  21.993  -7.695  1.00 57.68
ATOM   2996  OD1 ASP A 439      20.046  22.178  -6.781  1.00 57.75
ATOM   2997  OD2 ASP A 439      20.645  21.274  -8.692  1.00 58.18
ATOM   2998  N   MET A 440      21.233  25.407  -5.337  1.00 58.71
ATOM   2999  CA  MET A 440      20.841  25.656  -3.944  1.00 60.87
ATOM   3000  C   MET A 440      19.435  26.215  -3.713  1.00 62.52
ATOM   3001  O   MET A 440      19.247  27.451  -3.489  1.00 63.93
ATOM   3002  CB  MET A 440      21.916  26.569  -3.346  1.00 60.48
ATOM   3003  CG  MET A 440      21.523  27.456  -2.201  1.00 60.72
ATOM   3004  SD  MET A 440      22.755  28.755  -2.086  1.00 59.28
ATOM   3005  CE  MET A 440      22.367  29.689  -3.543  1.00 59.46
ATOM   3006  N   GLU A 441      18.435  25.343  -3.765  1.00 63.61
ATOM   3007  CA  GLU A 441      17.042  25.774  -3.514  1.00 65.54
ATOM   3008  C   GLU A 441      16.356  24.847  -2.518  1.00 64.49
ATOM   3009  O   GLU A 441      15.998  25.285  -1.375  1.00 65.36
ATOM   3010  CB  GLU A 441      16.229  25.847  -4.815  1.00 67.99
ATOM   3011  CG  GLU A 441      16.500  24.745  -5.822  1.00 70.98
ATOM   3012  CD  GLU A 441      17.353  25.228  -6.981  1.00 72.23
ATOM   3013  OE1 GLU A 441      18.507  25.646  -6.742  1.00 73.24
ATOM   3014  OE2 GLU A 441      16.867  25.194  -8.132  1.00 73.30
ATOM   3015  N   ASP A 442      16.170  23.585  -2.896  1.00 61.29
ATOM   3016  CA  ASP A 442      15.519  22.616  -1.986  1.00 58.37
ATOM   3017  C   ASP A 442      16.504  21.966  -1.018  1.00 55.47
ATOM   3018  O   ASP A 442      16.615  20.704  -0.950  1.00 54.59
ATOM   3019  CB  ASP A 442      14.800  21.530  -2.785  1.00 59.93
ATOM   3020  CG  ASP A 442      13.298  21.616  -2.646  1.00 60.90
ATOM   3021  OD1 ASP A 442      12.689  22.478  -3.312  1.00 61.34
ATOM   3022  OD2 ASP A 442      12.729  20.832  -1.854  1.00 61.81
ATOM   3023  N   CYS A 443      17.207  22.790  -0.252  1.00 51.31
ATOM   3024  CA  CYS A 443      18.200  22.281   0.713  1.00 47.79
ATOM   3025  C   CYS A 443      17.635  22.156   2.121  1.00 46.40
ATOM   3026  O   CYS A 443      18.168  21.373   2.965  1.00 44.04
ATOM   3027  CB  CYS A 443      19.421  23.198   0.713  1.00 48.61
ATOM   3028  SG  CYS A 443      20.176  23.339  -0.939  1.00 46.95
ATOM   3029  N   GLY A 444      16.566  22.895   2.395  1.00 45.40
ATOM   3030  CA  GLY A 444      15.953  22.846   3.709  1.00 45.06
ATOM   3031  C   GLY A 444      15.011  21.673   3.899  1.00 45.25
ATOM   3032  O   GLY A 444      14.271  21.264   2.952  1.00 44.97
ATOM   3033  N   TYR A 445      15.018  21.109   5.101  1.00 44.97
ATOM   3034  CA  TYR A 445      14.140  19.968   5.421  1.00 44.48
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ATOM   3035  C   TYR A 445      12.778  20.467   5.882  1.00 45.23
ATOM   3036  O   TYR A 445      12.662  21.558   6.530  1.00 44.57
ATOM   3037  CB  TYR A 445      14.801  19.172   6.531  1.00 43.11
ATOM   3038  CG  TYR A 445      13.918  17.997   6.871  1.00 42.75
ATOM   3039  CD1 TYR A 445      13.846  16.905   6.010  1.00 42.58
ATOM   3040  CD2 TYR A 445      13.170  17.998   8.049  1.00 42.27
ATOM   3041  CE1 TYR A 445      13.042  15.820   6.327  1.00 41.99
ATOM   3042  CE2 TYR A 445      12.358  16.917   8.360  1.00 43.20
ATOM   3043  CZ  TYR A 445      12.289  15.835   7.503  1.00 41.98
ATOM   3044  OH  TYR A 445      11.490  14.751   7.810  1.00 20.00
ATOM   3045  N   ASN A 446      11.746  19.699   5.550  1.00 45.69
ATOM   3046  CA  ASN A 446      10.359  20.012   5.947  1.00 48.64
ATOM.  3047.  C   ASN A 446       9.776  18.726   6.524  1.00 50.90
ATOM   3048  O   ASN A 446       9.894  17.625   5.896  1.00 51.59
ATOM   3049  CB  ASN A 446       9.537  20.470   4.738  1.00 48.19
ATOM   3050  CG  ASN A 446       9.975  21.827   4.213  1.00 48.18
ATOM   3051  OD1 ASN A 446       9.926  22.858   4.950  1.00 48.63
ATOM   3052  ND2 ASN A 446      10.403  21.867   2.957  1.00 48.04
ATOM   3053  N   ILE A 447       9.165  18.826   7.700  1.00 53.94
ATOM   3054  CA  ILE A 447       8.569  17.650   8.388  1.00 55.99
ATOM   3055  C   ILE A 447       7.720  16.772   7.463  1.00 57.01
ATOM   3056  O   ILE A 447       7.449  17.195   6.318  1.00 58.11
ATOM   3057  CB  ILE A 447       7.699  18.105   9.577  1.00 55.86
ATOM   3058  CG1 ILE A 447       8.488  19.086  10.450  1.00 56.28
ATOM   3059  CG2 ILE A 447       7.267  16.900  10.406  1.00 56.92
ATOM   3060  CD1 ILE A 447       9.759  18.505  11.037  1.00 55.79
ATOM   3061  OXT ILE A 447       7.328  15.666   7.895  1.00 57.55
ATOM   3062  N   SER P   1      35.528  15.672  28.238  1.00 37.61
ATOM   3063  CA  SER P   1      34.172  16.082  28.590  1.00 36.72
ATOM   3064  C   SER P   1      33.508  16.863  27.450  1.00 34.75
ATOM   3065  O   SER P   1      34.132  17.643  26.742  1.00 36.46
ATOM   3066  CB  SER P   1      34.248  16.949  29.848  1.00 37.77
ATOM   3067  OG  SER P   1      33.152  17.865  29.853  1.00 40.82
ATOM   3068  N   GLU P   2      32.203  16.601  27.257  1.00 32.86
ATOM   3069  CA  GLU P   2      31.513  17.216  26.129  1.00 32.80
ATOM   3070  C   GLU P   2      30.218  17.906  26.552  1.00 31.23
ATOM   3071  O   GLU P   2      29.435  17.401  27.348  1.00 31.31
ATOM   3072  CB  GLU P   2      31.275.  16.167  25.027  1.00 33.64
ATOM   3073  CG  GLU P   2      31.096  17.096  23.826  1.00 37.41
ATOM   3074  CD  GLU P   2      31.076  15.940  22.852  1.00 38.37
ATOM   3075  OE1 GLU P   2      31.996  15.134  22.983  1.00 39.04
ATOM   3076  OE2 GLU P   2      30.175  15.798  22.037  1.00 39.43
ATOM   3077  N   VAL P   3      29.742  19.344  26.106  1.00 27.98
ATOM   3078  CA  VAL P   3      28.367  19.820  26.101  1.00 26.44
ATOM   3079  C   VAL P   3      27.717  19.598  24.735  1.00 26.26
ATOM   3080  O   VAL P   3      28.371  19.580  23.701  1.00 25.48
ATOM   3081  CB  VAL P   3      28.377  21.311  26.429  1.00 25.89
ATOM   3082  CG1 VAL P   3      28.684  21.516  27.911  1.00 27.07
ATOM   3083  CG2 VAL P   3      29.431  22.012  25.594  1.00 23.97
ATOM   3084  N   ASN P   4      26.361  19.591  25.174  1.00 25.89
ATOM   3085  CA  ASN P   4      25.421  19.254  24.075  1.00 26.64
ATOM   3086  C   ASN P   4      24.027  19.825  24.452  1.00 26.87
ATOM   3087  O   ASN P   4      23.116  19.163  25.077  1.00 27.10
ATOM   3088  CB  ASN P   4      25.349  17.766  23.876  1.00 27.95
ATOM   3089  CG  ASN P   4      26.498  17.245  22.971  1.00 29.39
ATOM   3090  OD1 ASN P   4      26.499  17.409  21.723  1.00 31.90
ATOM   3091  ND2 ASN P   4      27.489  16.617  23.603  1.00 31.97
ATOM   3092  N   STA P   5      24.115  21.101  24.323  1.00 25.26
ATOM   3093  CA  STA P   5      22.965  21.865  24.929  1.00 25.83
ATOM   3094  CB  STA P   5      23.683  22.681  26.021  1.00 27.28
ATOM   3095  CG  STA P   5      24.378  22.057  27.197  1.00 28.07
ATOM   3096  CD1 STA P   5      25.002  23.077  28.182  1.00 27.46
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ATOM	3097	CD2	STA	P	5	23.280	21.130	27.828	1.00	25.47
ATOM	3098	CH	STA	P	5	22.223	22.851	23.940	1.00	25.86
ATOM	3099	OH	STA	P	5	23.028	23.679	23.298	1.00	25.23
ATOM	3100	CM	STA	P	5	21.372	21.980	23.048	1.00	27.11
ATOM	3101	C	STA	P	5	20.420	21.340	24.125	1.00	27.81
ATOM	3102	O	STA	P	5	20.241	20.065	24.095	1.00	25.70
ATOM	3103	N	VAL	P	6	19.339	22.479	23.764	1.00	26.04
ATOM	3104	CA	VAL	P	6	18.037	21.953	24.156	1.00	27.12
ATOM	3105	C	VAL	P	6	17.496	20.965	23.121	1.00	27.36
ATOM	3106	O	VAL	P	6	17.795	21.029	21.936	1.00	26.97
ATOM	3107	CB	VAL	P	6	17.073	23.130	24.312	1.00	27.18
ATOM	3108	CG1	VAL	P	6	16.433	23.463	22.965	1.00	26.70
ATOM	3109	CG2	VAL	P	6	15.985	22.781	25.311	1.00	28.74
ATOM	3110	N	ALA	P	7	16.702	19.998	23.617	1.00	28.68
ATOM	3111	CA	ALA	P	7	16.158	18.986	22.720	1.00	32.14
ATOM	3112	C	ALA	P	7	14.774	19.377	22.197	1.00	32.99
ATOM	3113	O	ALA	P	7	14.040	20.149	22.801	1.00	32.08
ATOM	3114	CB	ALA	P	7	16.072	17.666	23.489	1.00	31.38
ATOM	3115	N	GLU	P	8	14.443	18.843	21.007	1.00	36.10
ATOM	3116	CA	GLU	P	8	13.144	19.143	20.418	1.00	39.90
ATOM	3117	C	GLU	P	8	12.012	18.425	21.158	1.00	41.72
ATOM	3118	O	GLU	P	8	12.189	17.359	21.733	1.00	41.52
ATOM	3119	CB	GLU	P	8	13.172	18.705	18.952	1.00	39.88
ATOM	3120	CG	GLU	P	8	14.037	19.626	18.090	1.00	41.02
ATOM	3121	CD	GLU	P	8	13.896	19.235	16.637	1.00	41.83
ATOM	3122	OE1	GLU	P	8	14.911	19.052	15.979	1.00	41.60
ATOM	3123	OE2	GLU	P	8	12.765	19.124	16.169	1.00	41.88
ATOM	3124	N	PHE	P	9	10.811	18.986	21.162	1.00	45.62
ATOM	3125	CA	PHE	P	9	9.677	18.356	21.865	1.00	49.63
ATOM	3126	C	PHE	P	9	9.382	16.960	21.337	1.00	50.61
ATOM	3127	O	PHE	P	9	9.156	16.839	20.116	1.00	51.38
ATOM	3128	CB	PHE	P	9	8.451	19.245	21.670	1.00	50.65
ATOM	3129	CG	PHE	P	9	8.607	20.501	22.499	1.00	52.48
ATOM	3130	CD1	PHE	P	9	8.278	20.493	23.849	1.00	52.80
ATOM	3131	CD2	PHE	P	9	9.073	21.659	21.899	1.00	53.12
ATOM	3132	CE1	PHE	P	9	8.420	21.651	24.600	1.00	53.74
ATOM	3133	CE2	PHE	P	9	9.215	22.817	22.659	1.00	53.61
ATOM	3134	CZ	PHE	P	9	8.890	22.817	24.010	1.00	54.24
ATOM	3135	OXT	PHE	P	9	9.383	16.011	22.152	1.00	51.56
ATOM	3136	OH2	TIP	C	2	37.673	4.149	14.933	1.00	18.73
ATOM	3137	OH2	TIP	C	3	37.999	19.019	28.545	1.00	20.36
ATOM	3138	OH2	TIP	C	12	46.550	23.555	9.446	1.00	16.05
ATOM	3139	OH2	TIP	C	14	18.354	26.505	28.719	1.00	14.14
ATOM	3140	OH2	TIP	C	15	33.073	10.884	15.835	1.00	14.30
ATOM	3141	OH2	TIP	C	16	15.032	34.698	31.070	1.00	11.96
ATOM	3142	OH2	TIP	C	17	7.170	35.908	33.277	1.00	16.70
ATOM	3143	OH2	TIP	C	19	16.624	32.704	28.166	1.00	15.10
ATOM	3144	OH2	TIP	C	20	35.078	42.552	29.609	1.00	19.72
ATOM	3145	OH2	TIP	C	21	40.457	30.360	27.755	1.00	16.31
ATOM	3146	OH2	TIP	C	22	52.263	20.430	9.725	1.00	20.11
ATOM	3147	OH2	TIP	C	23	20.720	20.412	14.822	1.00	12.68
ATOM	3148	OH2	TIP	C	24	33.413	15.317	-5.393	1.00	15.90
ATOM	3149	OH2	TIP	C	25	38.275	25.072	23.469	1.00	13.40
ATOM	3150	OH2	TIP	C	27	16.591	21.729	7.186	1.00	19.86
ATOM	3151	OH2	TIP	C	28	21.798	19.346	19.780	1.00	14.31
ATOM	3152	OH2	TIP	C	29	17.533	34.724	25.177	1.00	16.69
ATOM	3153	OH2	TIP	C	30	29.162	27.768	25.821	1.00	19.19
ATOM	3154	OH2	TIP	C	31	40.631	28.021	16.946	1.00	14.53
ATOM	3155	OH2	TIP	C	32	32.428	32.415	17.998	1.00	10.42
ATOM	3156	OH2	TIP	C	33	11.884	34.798	21.161	1.00	23.00
ATOM	3157	OH2	TIP	C	34	27.837	25.769	-5.173	1.00	33.18
ATOM	3158	OH2	TIP	C	35	12.372	31.279	28.339	1.00	16.96

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ATOM   3159  OH2 TIP C  36      39.263  28.648  25.755  1.00  9.84
ATOM   3160  OH2 TIP C  40      38.924  30.840  30.171  1.00 13.35
ATOM   3161  OH2 TIP C  41      18.085  18.989  18.858  1.00 16.60
ATOM   3162  OH2 TIP C  42       7.300  35.692  30.168  1.00 19.22
ATOM   3163  OH2 TIP C  43      14.250  32.017  30.405  1.00 18.32
ATOM   3164  OH2 TIP C  44      37.440  22.761   1.333  1.00 23.96
ATOM   3165  OH2 TIP C  45      29.932  39.949  32.969  1.00 22.64
ATOM   3166  OH2 TIP C  46      29.433  17.902  20.935  1.00 16.15
ATOM   3167  OH2 TIP C  47      53.536  22.468  21.774  1.00 21.62
ATOM   3168  OH2 TIP C  48      40.180  15.699  -0.272  1.00 12.15
ATOM   3169  OH2 TIP C  49      14.955  25.973  25.745  1.00 11.98
ATOM   3170  OH2 TIP C  50      38.595   6.527   3.885  1.00 23.66
ATOM   3171  OH2 TIP C  51      48.551  24.793  17.574  1.00 18.30
ATOM   3172  OH2 TIP C  52      20.747  27.407  17.869  1.00  8.25
ATOM   3173  OH2 TIP C  53      26.489  18.730  30.746  1.00 26.59
ATOM   3174  OH2 TIP C  54      38.723  11.162  19.249  1.00 11.49
ATOM   3175  OH2 TIP C  55      33.881  26.191  31.382  1.00 19.21
ATOM   3176  OH2 TIP C  56      13.322  31.213  40.027  1.00 15.61
ATOM   3177  OH2 TIP C  57      19.497  16.134  41.439  1.00 26.82
ATOM   3178  OH2 TIP C  58      38.469  37.062   5.695  1.00 23.10
ATOM   3179  OH2 TIP C  59      45.575  15.894   3.122  1.00 18.45
ATOM   3180  OH2 TIP C  60      39.615  25.333  -1.743  1.00 20.09
ATOM   3181  OH2 TIP C  61      32.158  37.928  32.431  1.00 12.17
ATOM   3182  OH2 TIP C  62      46.793  19.609  22.823  1.00 19.81
ATOM   3183  OH2 TIP C  63      24.847  37.031  -0.659  1.00 29.98
ATOM   3184  OH2 TIP C  64      45.957  18.715   3.836  1.00 18.88
ATOM   3185  OH2 TIP C  65      36.189  33.100  17.653  1.00 10.63
ATOM   3186  OH2 TIP C  66      31.177  25.020  24.150  1.00 28.40
ATOM   3187  OH2 TIP C  67      46.181  23.210  18.466  1.00 20.41
ATOM   3188  OH2 TIP C  68      21.756  10.923   7.943  1.00 22.80
ATOM   3189  OH2 TIP C  69      12.936  36.695  30.481  1.00 17.63
ATOM   3190  OH2 TIP C  70      33.713  44.843   8.382  1.00 30.49
ATOM   3191  OH2 TIP C  71      21.051  41.550  39.982  1.00 31.15
ATOM   3192  OH2 TIP C  72      26.815  38.732   3.198  1.00 22.61
ATOM   3193  OH2 TIP C  73      41.656  24.820  21.177  1.00 19.69
ATOM   3194  OH2 TIP C  74      25.521  30.139  47.617  1.00 31.08
ATOM   3195  OH2 TIP C  75      20.497  46.537  15.336  1.00 29.67
ATOM   3196  OH2 TIP C  76       7.708  28.422  41.027  1.00 26.00
ATOM   3197  OH2 TIP C  77      25.650  18.585  27.821  1.00 17.30
ATOM   3198  OH2 TIP C  78      35.124  16.582  21.374  1.00 15.44
ATOM   3199  OH2 TIP C  79      16.806  29.258  45.952  1.00 22.64
ATOM   3200  OH2 TIP C  80      29.365   7.305  14.767  1.00 28.00
ATOM   3201  OH2 TIP C  81      36.259   9.577  -0.018  1.00 36.72
ATOM   3202  OH2 TIP C  82       5.598  37.375  35.367  1.00 29.64
ATOM   3203  OH2 TIP C  83      14.256  22.267   9.863  1.00 20.30
ATOM   3204  OH2 TIP C  84      34.533  14.826  41.318  1.00 35.70
ATOM   3205  OH2 TIP C  85      14.253  38.931  17.469  1.00 22.15
ATOM   3206  OH2 TIP C  86      40.762  43.633   8.075  1.00 32.27
ATOM   3207  OH2 TIP C  87      20.139  38.471  47.202  1.00 19.79
ATOM   3208  OH2 TIP C  88      49.003  25.388  14.809  1.00 16.95
ATOM   3209  OH2 TIP C  89      48.376  21.580  21.346  1.00 26.51
ATOM   3210  OH2 TIP C  90      38.281  15.314  27.561  1.00 34.16
ATOM   3211  OH2 TIP C  91       8.631  39.984  34.095  1.00 41.37
ATOM   3212  OH2 TIP C  92      50.906  23.612  20.744  1.00 52.18
ATOM   3213  OH2 TIP C  93      53.785  20.060  24.538  1.00 24.16
ATOM   3214  OH2 TIP C  94      24.823  42.619  11.579  1.00 21.18
ATOM   3215  OH2 TIP C  95      25.075  45.083   6.146  1.00 38.65
ATOM   3216  OH2 TIP C  96      40.830  25.584  18.443  1.00 18.31
ATOM   3217  OH2 TIP C  97      43.416  22.239  18.182  1.00 19.16
ATOM   3218  OH2 TIP C  98      13.417  34.174  40.223  1.00 31.15
ATOM   3219  OH2 TIP C  99      33.278  34.940  35.258  1.00 19.39
ATOM   3220  OH2 TIP C 100      16.214  11.125  16.638  1.00 44.74
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ATOM   3221  OH2 TIP C 101      53.364  20.723  14.579  1.00 34.15
ATOM   3222  OH2 TIP C 102      49.883  22.898   7.975  1.00 17.76
ATOM   3223  OH2 TIP C 103      23.025  15.361  39.364  1.00 32.71
ATOM   3224  OH2 TIP C 104       9.989  41.920  29.368  1.00 18.54
ATOM   3225  OH2 TIP C 105      40.434  26.276  24.857  1.00 17.36
ATOM   3226  OH2 TIP C 106      20.997  29.964   6.095  1.00 20.90
ATOM   3227  OH2 TIP C 107      27.762  47.336  16.035  1.00 24.48
ATOM   3228  OH2 TIP C 108      49.284  22.771   5.126  1.00 18.73
ATOM   3229  OH2 TIP C 109      48.838  23.239  29.592  1.00 33.97
ATOM   3230  OH2 TIP C 110      28.582  23.099  35.349  1.00 20.25
ATOM   3231  OH2 TIP C 111      32.528  35.162  39.110  1.00 29.39
ATOM   3232  OH2 TIP C 112      41.404  21.066  27.696  1.00 29.24
ATOM   3233  OH2 TIP C 113      41.566  30.795  24.916  1.00 29.04
ATOM   3234  OH2 TIP C 114      38.888  34.349   4.634  1.00 19.24
ATOM   3235  OH2 TIP C 115      21.524  13.318   6.181  1.00 21.83
ATOM   3236  OH2 TIP C 116      20.262  44.365  41.166  1.00 51.68
ATOM   3237  OH2 TIP C 117      40.866  37.586   7.262  1.00 26.48
ATOM   3238  OH2 TIP C 118      24.269  19.013  20.381  1.00 20.56
ATOM   3239  OH2 TIP C 119      14.796  40.366  21.026  1.00 26.21
ATOM   3240  OH2 TIP C 120      40.271  21.968  24.452  1.00 22.99
ATOM   3241  OH2 TIP C 121      27.256   8.206   3.568  1.00 32.16
ATOM   3242  OH2 TIP C 122      38.453  23.426  21.155  1.00 20.65
ATOM   3243  OH2 TIP C 123      39.489  30.192  18.787  1.00 19.64
ATOM   3244  OH2 TIP C 124      49.479  24.877   3.120  1.00 15.38
ATOM   3245  OH2 TIP C 125      23.534  17.922  36.838  1.00 21.55
ATOM   3246  OH2 TIP C 126      24.481  13.568  37.531  1.00 33.00
ATOM   3247  OH2 TIP C 127      27.515  37.075  45.132  1.00 32.65
ATOM   3248  OH2 TIP C 128      20.903  11.530  10.774  1.00 25.13
ATOM   3249  OH2 TIP C 129      16.996  37.117   6.834  1.00 26.72
ATOM   3250  OH2 TIP C 130      42.280  39.848   5.806  1.00 39.08
ATOM   3251  OH2 TIP C 131      15.426  37.238  14.643  1.00 27.36
ATOM   3252  OH2 TIP C 132      47.740  29.973  16.321  1.00 27.58
ATOM   3253  OH2 TIP C 133      52.162  19.864  18.278  1.00 19.10
ATOM   3254  OH2 TIP C 134      47.805  11.416   4.529  1.00 30.40
ATOM   3255  OH2 TIP C 135      20.920  22.905  41.964  1.00 23.80
ATOM   3256  OH2 TIP C 136      27.784  19.013  -1.506  1.00 28.71
ATOM   3257  OH2 TIP C 137      25.506  36.437   2.115  1.00 19.53
ATOM   3258  OH2 TIP C 138       6.347  36.058  44.801  1.00 30.54
ATOM   3259  OH2 TIP C 139      18.428  23.862   8.397  1.00 19.65
ATOM   3260  OH2 TIP C 140      56.631  14.945  24.048  1.00 29.26
ATOM   3261  OH2 TIP C 141      36.045  33.381  -3.424  1.00 39.63
ATOM   3262  OH2 TIP C 142      20.242  14.180  11.802  1.00 31.49
ATOM   3263  OH2 TIP C 143       8.614  22.301  31.526  1.00 30.94
ATOM   3264  OH2 TIP C 144       8.697  38.736  31.440  1.00 44.64
ATOM   3265  OH2 TIP C 145      21.002  20.115  40.621  1.00 23.34
ATOM   3266  OH2 TIP C 146      36.343  37.533   7.628  1.00 25.43
ATOM   3267  OH2 TIP C 147      13.944  44.970  51.125  1.00 40.01
ATOM   3268  OH2 TIP C 148      12.509  22.964  23.735  1.00 33.44
ATOM   3269  OH2 TIP C 149      32.555   6.398   6.686  1.00 30.50
ATOM   3270  OH2 TIP C 150      11.123  30.018  41.695  1.00 29.12
ATOM   3271  OH2 TIP C 151      20.406  19.454  17.419  1.00 26.72
ATOM   3272  OH2 TIP C 152      37.729  21.375  25.750  1.00 27.16
ATOM   3273  OH2 TIP C 153      36.922  28.170  33.507  1.00 42.28
ATOM   3274  OH2 TIP C 154      13.904  29.766  32.277  1.00 19.72
ATOM   3275  OH2 TIP C 155      54.556  19.732  11.775  1.00 37.67
ATOM   3276  OH2 TIP C 156      14.999  28.327  48.310  1.00 40.64
ATOM   3277  OH2 TIP C 157      19.001  46.759  12.106  1.00 40.48
ATOM   3278  OH2 TIP C 158      22.361   9.339  13.691  1.00 44.57
ATOM   3279  OH2 TIP C 159      26.097  16.601  36.996  1.00 27.61
ATOM   3280  OH2 TIP C 160      51.862  24.669  14.501  1.00 39.22
ATOM   3281  OH2 TIP C 161      42.713  33.316  38.299  1.00 37.21
ATOM   3282  OH2 TIP C 162      32.074  43.316   6.583  1.00 32.14
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ATOM	3283	OH2	TIP	C	163	44.434	22.056	2.693	1.00	44.76
ATOM	3284	OH2	TIP	C	164	24.074	33.090	45.770	1.00	26.95
ATOM	3285	OH2	TIP	C	165	12.289	35.656	48.500	1.00	33.30
ATOM	3286	OH2	TIP	C	166	19.499	27.253	51.538	1.00	48.93
ATOM	3287	OH2	TIP	C	167	28.896	14.390	20.410	1.00	32.12
ATOM	3288	OH2	TIP	C	168	7.799	34.543	25.107	1.00	34.11
ATOM	3289	OH2	TIP	C	169	41.359	33.697	5.939	1.00	29.72
ATOM	3290	OH2	TIP	C	170	26.378	23.008	46.449	1.00	37.54
ATOM	3291	OH2	TIP	C	171	10.530	41.770	49.010	1.00	34.66
ATOM	3292	OH2	TIP	C	172	41.154	5.586	4.533	1.00	25.18
ATOM	3293	OH2	TIP	C	173	17.462	11.487	4.521	1.00	46.32
ATOM	3294	OH2	TIP	C	174	7.600	39.527	37.113	1.00	36.37
ATOM	3295	OH2	TIP	C	175	3.552	23.235	37.583	1.00	39.37
ATOM	3296	OH2	TIP	C	176	32.818	21.891	40.191	1.00	36.81
ATOM	3297	OH2	TIP	C	177	30.404	26.159	40.588	1.00	38.22
ATOM	3298	OH2	TIP	C	178	16.691	29.183	54.400	1.00	39.76
ATOM	3299	OH2	TIP	C	179	16.247	47.986	22.417	1.00	32.19
ATOM	3300	OH2	TIP	C	180	37.394	44.558	11.594	1.00	39.03
ATOM	3301	OH2	TIP	C	181	53.552	27.209	11.822	1.00	47.97
ATOM	3302	OH2	TIP	C	182	10.503	32.709	12.025	1.00	38.41
ATOM	3303	OH2	TIP	C	183	17.985	14.916	28.259	1.00	36.86
ATOM	3304	OH2	TIP	C	184	25.047	45.446	12.174	1.00	49.92
ATOM	3305	OH2	TIP	C	185	16.402	15.741	36.532	1.00	40.29
ATOM	3306	OH2	TIP	C	186	51.364	22.471	17.335	1.00	28.11
ATOM	3307	OH2	TIP	C	187	25.633	28.369	50.282	1.00	42.57
ATOM	3308	OH2	TIP	C	188	35.183	14.816	0.037	1.00	36.60
ATOM	3309	OH2	TIP	C	189	8.318	26.536	23.386	1.00	44.75
ATOM	3310	OH2	TIP	C	190	47.893	17.794	24.745	1.00	42.51
ATOM	3311	OH2	TIP	C	191	2.728	32.293	36.650	1.00	38.36
ATOM	3312	OH2	TIP	C	192	30.315	9.929	15.860	1.00	39.58
ATOM	3313	OH2	TIP	C	193	29.613	40.378	2.225	1.00	41.26
ATOM	3314	OH2	TIP	C	194	14.241	43.934	16.316	1.00	43.60
ATOM	3315	OH2	TIP	C	195	48.673	31.215	7.801	1.00	32.67
ATOM	3316	OH2	TIP	C	196	10.948	21.963	18.969	1.00	41.87
ATOM	3317	OH2	TIP	C	197	37.378	39.077	3.714	1.00	35.77
ATOM	3318	OH2	TIP	C	198	24.488	11.993	21.654	1.00	38.05
ATOM	3319	OH2	TIP	C	199	47.986	31.378	4.946	1.00	48.02
ATOM	3320	OH2	TIP	C	200	15.373	46.520	15.659	1.00	45.30
ATOM	3321	OH2	TIP	C	201	29.464	40.417	40.154	1.00	40.62
ATOM	3322	OH2	TIP	C	202	56.018	18.652	7.189	1.00	43.28
ATOM	3323	OH2	TIP	C	203	36.508	17.526	41.765	1.00	61.21
ATOM	3324	OH2	TIP	C	204	36.132	36.523	-0.637	1.00	43.56
ATOM	3325	OH2	TIP	C	205	9.832	29.974	46.230	1.00	47.33
ATOM	3326	OH2	TIP	C	206	12.086	37.731	18.949	1.00	44.12
ATOM	3327	OH2	TIP	C	207	4.729	26.744	22.711	1.00	40.03
ATOM	3328	OH2	TIP	C	208	9.555	36.540	23.357	1.00	46.94
ATOM	3329	OH2	TIP	C	209	23.046	47.732	4.343	1.00	48.13
ATOM	3330	OH2	TIP	C	210	39.932	44.592	5.460	1.00	64.51
ATOM	3331	OH2	TIP	C	211	17.996	41.071	6.267	1.00	48.35
ATOM	3332	OH2	TIP	C	212	17.866	46.493	17.139	1.00	39.09
ATOM	3333	OH2	TIP	C	213	55.520	11.908	17.658	1.00	43.06
ATOM	3334	OH2	TIP	C	214	3.059	35.093	42.826	1.00	38.97
ATOM	3335	OH2	TIP	C	215	31.593	14.910	43.677	1.00	44.01
ATOM	3336	OH2	TIP	C	216	33.045	23.673	44.607	1.00	45.50
ATOM	3337	OH2	TIP	C	217	42.870	35.555	7.510	1.00	29.79
ATOM	3338	OH2	TIP	C	218	4.112	25.648	42.564	1.00	56.65
ATOM	3339	OH2	TIP	C	219	48.260	8.547	20.446	1.00	47.85
ATOM	3340	OH2	TIP	C	220	-0.925	31.171	41.173	1.00	36.99
ATOM	3341	OH2	TIP	C	221	41.791	22.878	0.132	1.00	56.14
ATOM	3342	OH2	TIP	C	222	7.088	25.685	41.540	1.00	47.43
ATOM	3343	OH2	TIP	C	223	24.815	4.785	13.582	1.00	47.96
ATOM	3344	OH2	TIP	C	224	40.690	4.520	15.174	1.00	48.76

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ATOM   3345  OH2 TIP C 225      10.029  32.425  18.562  1.00 36.30
ATOM   3346  OH2 TIP C 226      22.346  37.737  48.941  1.00 34.15
ATOM   3347  OH2 TIP C 227      16.274  17.012  19.693  1.00 27.63
ATOM   3348  OH2 TIP C 228      35.332  13.692  20.375  1.00 37.59
ATOM   3349  OH2 TIP C 229      41.228  36.673  22.908  1.00 51.58
ATOM   3350  OH2 TIP C 230      17.416  42.030  50.226  1.00 47.63
ATOM   3351  OH2 TIP C 231      18.428  39.213  52.835  1.00 40.43
ATOM   3352  OH2 TIP C 232      42.243  43.386  25.548  1.00 48.60
ATOM   3353  OH2 TIP C 233      14.081  18.701   0.364  1.00 32.87
ATOM   3354  OH2 TIP C 234      41.421  41.332  28.531  1.00 54.67
ATOM   3355  OH2 TIP C 235      42.772  36.396  11.892  1.00 41.24
ATOM   3356  OH2 TIP C 236      13.068  13.733  28.653  1.00 42.66
ATOM   3357  OH2 TIP C 237      10.850  26.738   7.811  1.00 40.46
ATOM   3358  OH2 TIP C 238      16.253  20.926  45.776  1.00 44.60
ATOM   3359  OH2 TIP C 239      32.681  31.139  43.220  1.00 42.20
ATOM   3360  OH2 TIP C 240      56.267  22.254   9.280  1.00 52.44
ATOM   3361  OH2 TIP C 241      12.553  25.304   9.942  1.00 38.77
ATOM   3362  OH2 TIP C 242      50.727   9.516  16.775  1.00 33.38
ATOM   3363  OH2 TIP C 243      31.871  41.347   0.512  1.00 47.78
ATOM   3364  OH2 TIP C 244      10.008  45.092  37.807  1.00 39.52
ATOM   3365  OH2 TIP C 245      14.551  39.030   6.708  1.00 44.26
ATOM   3366  OH2 TIP C 246      26.955  18.903  -5.135  1.00 42.54
ATOM   3367  OH2 TIP C 247      39.916  22.478  18.854  1.00 33.22
ATOM   3368  OH2 TIP C 248      40.431  40.824  22.426  1.00 35.58
ATOM   3369  OH2 TIP C 249      52.081  23.408  10.759  1.00 42.53
ATOM   3370  OH2 TIP C 250      12.078  16.710  24.149  1.00 32.37
ATOM   3371  OH2 TIP C 251      54.111  15.908   8.256  1.00 44.58
ATOM   3372  OH2 TIP C 252      33.950  12.827  -1.753  1.00 27.02
ATOM   3373  OH2 TIP C 253      -0.775  26.703  40.353  1.00 43.64
ATOM   3374  OH2 TIP C 254       1.937  33.711  40.561  1.00 42.67
ATOM   3375  OH2 TIP C 255       8.008  24.066  18.824  1.00 51.45
ATOM   3376  OH2 TIP C 256      11.765  27.465   3.635  1.00 47.34
ATOM   3377  OH2 TIP C 257      27.863  43.878   9.233  1.00 32.44
ATOM   3378  OH2 TIP C 258      18.655  30.114   4.303  1.00 33.13
ATOM   3379  OH2 TIP C 259      21.592  19.085  -3.960  1.00 39.86
ATOM   3380  OH2 TIP C 260      41.876  24.067  25.906  1.00 26.34
ATOM   3381  OH2 TIP C 261      46.651  10.240   2.171  1.00 44.38
ATOM   3382  OH2 TIP C 262      32.536  15.827  32.477  1.00 43.28
ATOM   3383  OH2 TIP C 263      12.479  39.205  50.359  1.00 47.33
ATOM   3384  OH2 TIP C 264       0.850  27.980  38.316  1.00 43.45
ATOM   3385  OH2 TIP C 265      49.605   7.356  18.061  1.00 66.01
ATOM   3386  OH2 TIP C 266      30.177  40.365  -3.235  1.00 44.45
ATOM   3387  OH2 TIP C 267      39.818  12.364   0.512  1.00 48.84
ATOM   3388  OH2 TIP C 268      38.149  44.716  27.884  1.00 51.18
ATOM   3389  OH2 TIP C 269      37.156  37.062  30.528  1.00 35.17
ATOM   3390  OH2 TIP C 270      51.808   7.097  12.435  1.00 51.69
ATOM   3391  OH2 TIP C 271      54.351  12.626  12.471  1.00 47.45
ATOM   3392  OH2 TIP C 272      50.835  31.155  13.092  1.00 55.05
ATOM   3393  OH2 TIP C 273      12.159  35.313  52.133  1.00 52.38
ATOM   3394  OH2 TIP C 274      21.002  44.489  13.037  1.00 39.70
ATOM   3395  OH2 TIP C 275      37.936  23.627  34.221  1.00 48.56
ATOM   3396  OH2 TIP C 276      45.844  30.935  31.365  1.00 43.24
ATOM   3397  OH2 TIP C 277      38.831  48.015  15.554  1.00 49.83
ATOM   3398  OH2 TIP C 278       5.630  28.150  44.576  1.00 48.10
ATOM   3399  OH2 TIP C 279       8.600  24.000  45.727  1.00 49.27
ATOM   3400  OH2 TIP C 280      54.276  20.854   7.807  1.00 36.02
ATOM   3401  OH2 TIP C 281       3.544  34.696  46.365  1.00 43.63
ATOM   3402  OH2 TIP C 282      24.214  46.264  46.163  1.00 48.04
ATOM   3403  OH2 TIP C 283       7.099  32.072  19.549  1.00 54.97
ATOM   3404  OH2 TIP C 284      36.469  22.374  41.355  1.00 52.17
ATOM   3405  OH2 TIP C 285      34.660  13.757  23.756  1.00 45.46
ATOM   3406  OH2 TIP C 286      28.516  42.981   5.402  1.00 53.58
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ATOM	3407	OH2	TIP	C	287	35.579	4.929	12.012	1.00	52.07
ATOM	3408	OH2	TIP	C	288	22.974	49.682	24.299	1.00	53.67
ATOM	3409	OH2	TIP	C	289	3.725	31.464	46.354	1.00	46.43
ATOM	3410	OH2	TIP	C	290	27.340	39.594	-2.191	1.00	56.89
ATOM	3411	OH2	TIP	C	291	33.413	34.856	32.335	1.00	31.78
ATOM	3412	OH2	TIP	C	292	43.340	7.715	8.063	1.00	43.53
ATOM	3413	OH2	TIP	C	293	28.243	21.392	-4.937	1.00	38.33
ATOM	3414	OH2	TIP	C	294	49.389	26.590	35.796	1.00	45.66
ATOM	3415	OH2	TIP	C	295	28.948	15.824	33.796	1.00	52.48
ATOM	3416	OH2	TIP	C	296	27.347	13.383	37.207	1.00	48.27
ATOM	3417	OH2	TIP	C	297	38.485	26.090	36.901	1.00	48.92
ATOM	3418	OH2	TIP	C	298	12.120	20.265	11.506	1.00	50.10
ATOM	3419	OH2	TIP	C	299	36.480	36.306	38.613	1.00	50.38
ATOM	3420	OH2	TIP	C	300	31.471	16.463	35.507	1.00	38.37
ATOM	3421	OH2	TIP	C	301	42.889	5.274	2.358	1.00	33.49
ATOM	3422	OH2	TIP	C	302	23.548	44.173	32.246	1.00	39.09
ATOM	3423	OH2	TIP	C	303	13.465	43.978	13.054	1.00	52.67
ATOM	3424	OH2	TIP	C	304	25.133	43.053	4.111	1.00	52.03
ATOM	3425	OH2	TIP	C	305	33.587	24.652	39.392	1.00	49.48
ATOM	3426	OH2	TIP	C	306	39.063	28.353	1.979	1.00	47.89
ATOM	3427	OH2	TIP	C	307	49.357	35.834	12.150	1.00	49.22
ATOM	3428	OH2	TIP	C	308	27.159	46.386	33.347	1.00	49.50
ATOM	3429	OH2	TIP	C	309	9.510	21.769	39.704	1.00	47.95
ATOM	3430	OH2	TIP	C	310	34.885	32.959	39.205	1.00	51.26
ATOM	3431	OH2	TIP	C	311	30.980	6.002	9.747	1.00	56.02
ATOM	3432	OH2	TIP	C	312	43.802	34.511	14.853	1.00	41.89
ATOM	3433	OH2	TIP	C	313	36.834	4.382	5.254	1.00	39.04
ATOM	3434	OH2	TIP	C	314	12.453	30.429	47.461	1.00	47.60
ATOM	3435	OH2	TIP	C	315	39.685	40.144	30.944	1.00	54.68
ATOM	3436	OH2	TIP	C	316	45.982	20.840	31.078	1.00	47.99
ATOM	3437	OH2	TIP	C	317	32.815	36.023	42.050	1.00	45.07
ATOM	3438	OH2	TIP	C	318	17.877	37.802	-3.699	1.00	56.30
ATOM	3439	OH2	TIP	C	319	53.681	9.633	16.525	1.00	55.34
ATOM	3440	OH2	TIP	C	320	21.577	43.070	52.229	1.00	49.54
ATOM	3441	OH2	TIP	C	321	6.139	45.122	36.565	1.00	44.40
ATOM	3442	OH2	TIP	C	322	34.695	13.561	26.782	1.00	45.99
ATOM	3443	OH2	TIP	C	323	17.990	33.946	-9.976	1.00	56.88
ATOM	3444	OH2	TIP	C	324	25.587	50.416	28.268	1.00	52.75
ATOM	3445	OH2	TIP	C	325	27.744	42.608	42.266	1.00	44.66
ATOM	3446	OH2	TIP	C	326	48.357	32.815	33.851	1.00	57.98
ATOM	3447	OH2	TIP	C	327	61.047	18.004	17.692	1.00	51.30
ATOM	3448	OH2	TIP	C	328	17.327	11.069	11.972	1.00	48.28
ATOM	3449	OH2	TIP	C	329	59.624	17.562	20.598	1.00	44.37
ATOM	3450	OH2	TIP	C	330	40.644	39.227	19.932	1.00	37.57
ATOM	3451	OH2	TIP	C	331	12.920	31.214	52.942	1.00	51.07
ATOM	3452	OH2	TIP	C	332	37.639	0.847	19.561	1.00	49.44
ATOM	3453	OH2	TIP	C	333	34.243	38.790	-3.251	1.00	54.21
ATOM	3454	OH2	TIP	C	334	24.216	47.874	6.983	1.00	50.90
ATOM	3455	OH2	TIP	C	335	15.324	34.797	6.670	1.00	45.25
ATOM	3456	OH2	TIP	C	336	18.474	15.525	21.402	1.00	34.12
ATOM	3457	OH2	TIP	C	337	40.048	8.873	26.818	1.00	49.89
ATOM	3458	OH2	TIP	C	338	32.472	13.331	20.523	1.00	29.86
ATOM	3459	OH2	TIP	C	339	57.778	14.167	30.422	1.00	49.76
ATOM	3460	OH2	TIP	C	340	46.651	35.476	13.375	1.00	56.48
ATOM	3461	OH2	TIP	C	341	15.427	13.237	3.552	1.00	57.25
ATOM	3462	OH2	TIP	C	342	40.349	38.972	3.722	1.00	65.27
ATOM	3463	OH2	TIP	C	343	8.685	28.945	15.205	1.00	59.60
ATOM	3464	OH2	TIP	C	344	11.958	41.585	22.587	1.00	37.18
ATOM	3465	OH2	TIP	C	345	9.054	20.498	28.914	1.00	42.95
ATOM	3466	OH2	TIP	C	346	20.086	20.088	46.913	1.00	42.03
ATOM	3467	OH2	TIP	C	347	40.370	35.093	2.009	1.00	49.35
ATOM	3468	OH2	TIP	C	348	41.948	4.327	12.147	1.00	50.59

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ATOM   3469  OH2 TIP C 349      23.518  45.701  40.287  1.00 39.79
ATOM   3470  OH2 TIP C 350      19.169  37.474   4.786  1.00 44.67
ATOM   3471  OH2 TIP C 351      32.946  39.184  41.062  1.00 57.56
ATOM   3472  OH2 TIP C 352      37.578  47.817  18.421  1.00 51.80
ATOM   3473  OH2 TIP C 353      15.391  43.820   7.645  1.00 58.15
ATOM   3474  OH2 TIP C 354      38.205  17.257  33.401  1.00 55.84
ATOM   3475  OH2 TIP C 355      43.224   1.565  14.606  1.00 41.12
ATOM   3476  OH2 TIP C 356      18.704  51.623  28.487  1.00 61.11
ATOM   3477  OH2 TIP C 357      46.033   5.813   0.173  1.00 43.43
ATOM   3478  OH2 TIP C 358      51.950  27.722  14.408  1.00 45.00
ATOM   3479  OH2 TIP C 359      46.825   2.427  15.714  1.00 52.68
ATOM   3480  OH2 TIP C 360      17.624  50.111  20.315  1.00 39.65
ATOM   3481  O   HOH C 361      27.534  15.877  26.687  1.00 20.00
ATOM   3482  O   HOH C 362      28.946  16.344  30.514  1.00 20.00
END
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